



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno Pigott
Commissioner

May 24, 2018

VIA ELECTRONIC MAIL

Mr. Pete Breuckman, President
Hebron Town Council
106 East Sigler Road
P.O. Box 478
Hebron, Indiana 46341

Dear Mr. Breuckman:

Re: Final NPDES Permit No. IN0020061
Town of Hebron Wastewater Treatment Plant
Porter County

Your application for a National Pollutant Discharge Elimination System (NPDES) permit has been processed in accordance with Sections 402 and 405 of the Federal Water Pollution Control Act as amended, (33 U.S.C. 1251, et seq.), and IDEM's permitting authority under IC 13-15. The enclosed NPDES permit covers your discharges to Cobb Creek. All discharges from this facility shall be consistent with the terms and conditions of this permit.

One condition of your permit requires monthly reporting of several effluent parameters. You are required to submit both federal discharge monitoring reports (DMRs) and state Monthly Reports of Operation (MROs) on a routine basis. The MRO form is available on the internet at the following web site: <http://www.in.gov/idem/cleanwater/2396.htm>.

Once you are on this page, select the "IDEM Forms" page and locate the version of the MRO applicable to your plant under the "Wastewater Facilities" heading. We recommend selecting the "XLS" version as it will complete all of the calculations on the data entered.

All NPDES permit holders are required to submit their monitoring data to IDEM using NetDMR. Please contact Rose McDaniel at (317) 233-2653 or Helen Demmings (317) 232-8815 if you would like more information on NetDMR. Information is also available on our website at <http://IN.gov/idem/cleanwater/2422.htm>.

Another condition which needs to be clearly understood concerns violation of the effluent limitations in the permit. Exceeding the limitations constitutes a violation of the permit and may bring criminal or civil penalties upon the permittee. (See Part II.A.1 and II.A.11 of this permit). It is very important that your office and treatment operator understand this part of the permit.

Please note that this permit issuance can be appealed. An appeal must be filed under procedures outlined in IC 13-15-6, IC 4-21.5, and the enclosed public notice. The appeal must be initiated by filing a petition for administrative review with the Office of Environmental Adjudication (OEA) within fifteen (15) days of the emailing of an electronic copy of this letter or within eighteen (18) days of the mailing of this letter by filing at the following addresses:

Director
Office of Environmental Adjudication
Indiana Government Center North
Room N103
100 North Senate Avenue
Indianapolis, Indiana 46204

Commissioner
Indiana Department of Environmental Management
Indiana Government Center North
Room 1301
100 North Senate Avenue
Indianapolis, Indiana 46204

The permit should be read and studied. It requires certain action at specific times by you, the discharger, or your authorized representative. One copy of this permit is also being sent to your operator to be kept at the treatment facility. You may wish to call this permit to the attention of your consulting engineer and/or attorney.

If you have any questions concerning your NPDES permit, please contact Vanessa Snyder at 317/232-4871 or vsnyder@idem.IN.gov. More information on the appeal review process is available at the website for the Office of Environmental Adjudication at <http://www.in.gov/oea>.

Sincerely,

A handwritten signature in black ink, appearing to read "Jerry Dittmer", with a stylized, cursive script.

Jerry Dittmer, Chief
Permits Branch
Office of Water Quality

Enclosures

cc: Randy Decker, Certified Operator
Tim Bronn, McMahon Associates, Inc.

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq., the "Act"), Title 13 of the Indiana Code, and regulations adopted by the Water Pollution Control Board, the Indiana Department of Environmental Management (IDEM) is issuing this permit to the

TOWN OF HEBRON

hereinafter referred to as "the permittee." The permittee owns and/or operates the **Town of Hebron Wastewater Treatment Plant**, a minor municipal wastewater treatment plant located at 101 Utility Drive, Hebron, Indiana, Porter County. The permittee is hereby authorized to discharge from the outfalls identified in Part I of this permit to receiving waters named Cobb Creek in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in the permit. This permit may be revoked for the nonpayment of applicable fees in accordance with IC 13-18-20.

Effective Date: November 1, 2018.

Expiration Date: October 31, 2023.

In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and application forms as are required by the Indiana Department of Environmental Management. The application shall be submitted to IDEM at least 180 days prior to the expiration date of this permit, unless a later date is allowed by the Commissioner in accordance with 327 IAC 5-3-2 and Part II.A.4 of this permit.

Issued on May 24, 2018, for the Indiana Department of Environmental Management.



Jerry Dittmer, Chief
Permits Branch
Office of Water Quality

TREATMENT FACILITY DESCRIPTION

The permittee currently operates a Class II, 0.52 MGD trickling filter-type wastewater treatment facility consisting of a bar screen, an influent flow meter, three (3) primary clarifier-digesters, a trickling filter, an intermediate clarifier, two (2) nitrification towers, three (3) final clarifiers, ultraviolet (UV) light disinfection, and an effluent meter.

The collection system is comprised of 100% separate sanitary sewers by design with no overflow or bypass points.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from the outfall listed below in accordance with the terms and conditions of this permit. The permittee shall take samples and measurements at a location representative of each discharge to determine whether the effluent limitations have been met. Refer to Part I.B of this permit for additional monitoring and reporting requirements.

- Beginning on the effective date of this permit, the permittee is authorized to discharge from Outfall 001, which is located at Latitude: 41° 18' 55" N, Longitude: 87° 11' 18" W. The discharge is subject to the following requirements:

TABLE 1

<u>Parameter</u>	<u>Quantity or Loading</u>			<u>Quality or Concentration</u>			<u>Monitoring Requirements</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Units</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow [1]	Report	----	MGD	----	----	----	5 X Weekly	24-Hr. Total
CBOD ₅	108	174	lbs/day	25	40	mg/l	3 X Weekly	24-Hr. Composite
TSS	130	195	lbs/day	30	45	mg/l	3 X Weekly	24-Hr. Composite
Ammonia-nitrogen								
Summer [2]	13.5	20.4	lbs/day	3.1	4.7	mg/l	3 X Weekly	24-Hr. Composite
Winter [3]	20.4	30.4	lbs/day	4.7	7.0	mg/l	3 X Weekly	24-Hr. Composite

TABLE 2

<u>Parameter</u>	<u>Quality or Concentration</u>				<u>Monitoring Requirements</u>	
	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
pH [4]	6.0	----	9.0	s.u.	5 X Weekly	Grab
Dissolved Oxygen [5]						
Summer [2]	5.0	----	----	mg/l	5 X Weekly	3 Grabs/24-Hrs.
Winter [3]	4.0	----	----	mg/l	5 X Weekly	3 Grabs/24-Hrs.
<i>E. coli</i> [6]	----	125 [7]	235 [8]	cfu/100 ml	3 X Weekly	Grab

- [1] Effluent flow measurement is required per 327 IAC 5-2-13. The flow meter(s) shall be calibrated at least once every twelve months.
- [2] Summer limitations apply from May 1 through November 30 of each year.
- [3] Winter limitations apply from December 1 through April 30 of each year.
- [4] If the permittee collects more than one grab sample on a given day for pH, the values shall not be averaged for reporting daily maximums or daily minimums. The permittee must report the individual minimum and the individual maximum pH value of any sample during the month on the Monthly Report of Operation forms.
- [5] The daily minimum concentration of dissolved oxygen in the effluent shall be reported as the arithmetic mean determined by summation of the three (3) daily grab sample results divided by the number of daily grab samples. These samples are to be collected over equal time intervals.
- [6] The effluent shall be disinfected on a continuous basis such that violations of the applicable bacteriological limitations (*E. coli*) do not occur from April 1 through October 31, annually.

The *Escherichia coli* (*E. coli*) limitations apply from April 1 through October 31 annually. IDEM has specified the following methods as allowable for the detection and enumeration of *Escherichia coli* (*E. coli*):

1. Coliscan MF® Method
2. EPA Method 1603 Modified m-TEC agar
3. mColi Blue-24®
4. Colilert® MPN Method or Colilert-18® MPN Method

[7] The monthly average *E. coli* value shall be calculated as a geometric mean. Per 327 IAC 5-10-6, the concentration of *E. coli* shall not exceed one hundred twenty-five (125) cfu or mpn per 100 milliliters as a geometric mean of the effluent samples taken in a calendar month. No samples may be excluded when calculating the monthly geometric mean.

[8] If less than ten samples are taken and analyzed for *E. coli* in a calendar month, no samples may exceed two hundred thirty-five (235) cfu or mpn as a daily maximum. However, when ten (10) or more samples are taken and analyzed for *E. coli* in a calendar month, not more than ten percent (10%) of those samples may exceed two hundred thirty-five (235) cfu or mpn as a daily maximum. When calculating ten percent, the result must not be rounded up. In reporting for compliance purposes on the Discharge Monitoring Report (DMR) form, the permittee shall record the highest non-excluded value for the daily maximum.

2. Minimum Narrative Limitations

At all times the discharge from any and all point sources specified within this permit shall not cause receiving waters:

- a. including the mixing zone, to contain substances, materials, floating debris, oil, scum or other pollutants:
 - (1) that will settle to form putrescent or otherwise objectionable deposits;
 - (2) that are in amounts sufficient to be unsightly or deleterious;
 - (3) that produce color, visible oil sheen, odor, or other conditions in such degree as to create a nuisance;
 - (4) which are in amounts sufficient to be acutely toxic to, or to otherwise severely injure or kill aquatic life, other animals, plants, or humans;
 - (5) which are in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to such a degree as to create a nuisance, be unsightly, or otherwise impair the designated uses.
- b. outside the mixing zone, to contain substances in concentrations which on the basis of available scientific data are believed to be sufficient to injure, be chronically toxic to, or be carcinogenic, mutagenic, or teratogenic to humans, animals, aquatic life, or plants.

B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge flow and shall be taken at times which reflect the full range and concentration of effluent parameters normally expected to be present. Samples shall not be taken at times to avoid showing elevated levels of any parameters.

2. Data on Plant Operation

The raw influent and the wastewater from intermediate unit treatment processes, as well as the final effluent shall be sampled and analyzed for the pollutants and operational parameters specified by the applicable Monthly Report of Operation Form, as appropriate, in accordance with 327 IAC 5-2-13. Except where the permit specifically states otherwise, the sample frequency for the raw influent and intermediate unit treatment process shall be at a minimum the same frequency as that for the final effluent. The measurement frequencies specified in each of the tables in Part I.A. are the minimum frequencies required by this permit.

For publicly owned treatment works, the 30-day average percent removal for Carbonaceous Biochemical Oxygen Demand (CBOD₅) and Total Suspended Solids shall not be less than 85 percent unless otherwise authorized by the permitting authority in accordance with 40 CFR Part 133.102, as incorporated by reference in 327 IAC 5-2-1.5. The permittee must monitor the influent and effluent CBOD₅ and TSS at least once per month and calculate the percent removal to ensure compliance with the required 85 percent removal. This information must be maintained on site and provided to this Office's staff upon request.

3. Monthly Reporting

The permittee shall submit accurate monitoring reports to the Indiana Department of Environmental Management containing results obtained during the previous monitoring period and shall be submitted no later than the 28th day of the month following each completed monitoring period. The first report shall be submitted by the 28th day of the month following the monitoring period in which the permit becomes effective. These reports shall include, but not necessarily be limited to, the Discharge Monitoring Report (DMR) and the Monthly Report of Operation (MRO). All reports shall be submitted electronically by using the NetDMR application, upon registration, receipt of the NetDMR Subscriber Agreement, and IDEM approval of the proposed NetDMR Signatory. Access the NetDMR website (for initial registration and DMR/MMR submittal) via CDX at: <https://cdx.epa.gov/>. The Regional Administrator may request the permittee to submit monitoring reports to the Environmental Protection Agency if it is deemed necessary to assure compliance with the permit.

A calendar week will begin on Sunday and end on Saturday. Partial weeks consisting of four or more days at the end of any month will include the remaining days of the week,

which occur in the following month in order to calculate a consecutive seven-day average. This value will be reported as a weekly average or seven-day average on the MRO for the month containing the partial week of four or more days. Partial calendar weeks consisting of less than four days at the end of any month will be carried forward to the succeeding month and reported as a weekly average or a seven-day average for the calendar week that ends with the first Saturday of that month.

4. Definitions

a. Calculation of Averages

Pursuant to 327 IAC 5-2-11(a)(5), the calculation of the average of discharge data shall be determined as follows: For all parameters except fecal coliform and *E. coli*, calculations that require averaging of sample analyses or measurements of daily discharges shall use an arithmetic mean unless otherwise specified in this permit. For fecal coliform, the monthly average discharge and weekly average discharge, as concentrations, shall be calculated as a geometric mean. For *E. coli*, the monthly average discharge, as a concentration, shall be calculated as a geometric mean.

b. Terms

- (1) “Monthly Average” -The monthly average discharge means the total mass or flow-weighted concentration of all daily discharges during a calendar month on which daily discharges are sampled or measured, divided by the number of daily discharges sampled and/or measured during such calendar month. The monthly average discharge limitation is the highest allowable average monthly discharge for any calendar month.
- (2) “Weekly Average” - The weekly average discharge means the total mass or flow weighted concentration of all daily discharges during any calendar week for which daily discharges are sampled or measured, divided by the number of daily discharges sampled and/or measured during such calendar week. The average weekly discharge limitation is the maximum allowable average weekly discharge for any calendar week.
- (3) “Daily Maximum” - The daily maximum discharge limitation is the maximum allowable daily discharge for any calendar day. The “daily discharge” means the total mass of a pollutant discharged during the calendar day or, in the case of a pollutant limited in terms other than mass pursuant to 327 IAC 5-2-11(e), the average concentration or other measurement of the pollutant specified over the calendar day or any twenty-four hour period that represents the calendar day for purposes of sampling.
- (4) “24-hour Composite” - A 24-hour composite sample consists of at least three (3) individual flow-proportioned samples of wastewater, taken by the grab sample method over equal time intervals during the period of operator attendance or by

an automatic sampler, and which are combined prior to analysis. A flow proportioned composite sample shall be obtained by:

- (a) recording the discharge flow rate at the time each individual sample is taken,
- (b) adding together the discharge flow rates recorded from each individual sampling time to formulate the “total flow value,”
- (c) dividing the discharge flow rate of each individual sampling time by the total flow value to determine its percentage of the total flow value, and
- (d) multiplying the volume of the total composite sample by each individual sample’s percentage to determine the volume of that individual sample which will be included in the total composite sample.

Alternatively, a 24-hour composite sample may be obtained by an automatic sampler on an equal time interval basis over a twenty-four hour period provided that a minimum of 24 samples are taken and combined prior to analysis. The samples do not need to be flow-proportioned if the permittee collects samples in this manner.

- (5) CBOD₅: Five-day Carbonaceous Biochemical Oxygen Demand
- (6) TSS: Total Suspended Solids
- (7) *E. coli*: Escherichia coli bacteria
- (8) The “Regional Administrator” is defined as the Region V Administrator, U.S. EPA, located at 77 West Jackson Boulevard, Chicago, Illinois 60604.
- (9) The “Commissioner” is defined as the Commissioner of the Indiana Department of Environmental Management, located at the following address: 100 North Senate Avenue, Indianapolis, Indiana 46204-2251.
- (10) Limit of Detection or LOD is defined as a measurement of the concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero (0) for a particular analytical method and sample matrix. The LOD is equivalent to the Method Detection Level or MDL.
- (11) Limit of Quantitation or LOQ is defined as a measurement of the concentration of a contaminant obtained by using a specified laboratory procedure calibrated at a specified concentration above the method detection level. It is considered the lowest concentration at which a particular contaminant can be quantitatively measured using a specified laboratory procedure for monitoring of the contaminant. This term is also called the limit of quantification or quantification level.

(12) Method Detection Level or MDL is defined as the minimum concentration of an analyte (substance) that can be measured and reported with a ninety-nine percent (99%) confidence that the analyte concentration is greater than zero (0) as determined by the procedure set forth in 40 CFR Part 136, Appendix B. The method detection level or MDL is equivalent to the LOD.

5. Test Procedures

The analytical and sampling methods used shall conform to the current version of 40 CFR, Part 136, unless otherwise specified within this permit. Multiple editions of Standard Methods for the Examination of Water and Wastewater are currently approved for most methods, however, 40 CFR Part 136 should be checked to ascertain if a particular method is approved for a particular analyte. The approved methods may be included in the texts listed below. However, different but equivalent methods are allowable if they receive the prior written approval of the State agency and the U.S. Environmental Protection Agency.

- a. Standard Methods for the Examination of Water and Wastewater
18th, 19th, or 20th Editions, 1992, 1995 or 1998 American Public Health Association, Washington, D.C. 20005.
- b. A.S.T.M. Standards, Part 23, Water; Atmospheric Analysis
1972 American Society for Testing and Materials, Philadelphia, PA 19103.
- c. Methods for Chemical Analysis of Water and Wastes
June 1974, Revised, March 1983, Environmental Protection Agency, Water Quality Office, Analytical Quality Control Laboratory, 1014 Broadway, Cincinnati, OH 45202.

6. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record and maintain records of all monitoring information on activities under this permit, including the following information:

- a. The exact place, date, and time of sampling or measurements;
- b. The person(s) who performed the sampling or measurements;
- c. The dates and times the analyses were performed;
- d. The person(s) who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of all required analyses and measurements.

7. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monthly Discharge Monitoring Report and on the Monthly Report of Operation form. Such increased frequency shall also be indicated on these forms. Any such additional monitoring data which indicates a violation of a permit limitation shall be followed up by the permittee, whenever feasible, with a monitoring sample obtained and analyzed pursuant to approved analytical methods. The results of the follow-up sample shall be reported to the Commissioner in the Monthly Discharge Monitoring Report.

8. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years. In cases where the original records are kept at another location, a copy of all such records shall be kept at the permitted facility. The three-year period shall be extended:

- a. automatically during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or regarding promulgated effluent guidelines applicable to the permittee; or
- b. as requested by the Regional Administrator or the Indiana Department of Environmental Management.

C. REOPENING CLAUSES

In addition to the reopening clause provisions cited at 327 IAC 5-2-16, the following reopening clauses are incorporated into this permit:

1. This permit may be modified or, alternately, revoked and reissued after public notice and opportunity for hearing to incorporate effluent limitations reflecting the results of a wasteload allocation if the Department of Environmental Management determines that such effluent limitations are needed to assure that State Water Quality Standards are met in the receiving stream.
2. This permit may be modified due to a change in sludge disposal standards pursuant to Section 405(d) of the Clean Water Act, if the standards when promulgated contain different conditions, are otherwise more stringent, or control pollutants not addressed by this permit.

3. This permit may be modified, or, alternately, revoked and reissued, to comply with any applicable effluent limitation or standard issued or approved under section 301(b)(2)(C), (D) and (E), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent limitation or standard so issued or approved:
 - a. contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - b. controls any pollutant not limited in the permit.

PART II

STANDARD CONDITIONS FOR NPDES PERMITS

A. GENERAL CONDITIONS

1. Duty to Comply

The permittee shall comply with all terms and conditions of this permit in accordance with 327 IAC 5-2-8(1) and all other requirements of 327 IAC 5-2-8. Any permit noncompliance constitutes a violation of the Clean Water Act and IC 13 and is grounds for enforcement action or permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

2. Duty to Mitigate

In accordance with 327 IAC 5-2-8(3), the permittee shall take all reasonable steps to minimize or correct any adverse impact to the environment resulting from noncompliance with this permit. During periods of noncompliance, the permittee shall conduct such accelerated or additional monitoring for the affected parameters, as appropriate or as requested by IDEM, to determine the nature and impact of the noncompliance.

3. Duty to Provide Information

The permittee shall submit any information that the permittee knows or has reason to believe would constitute cause for modification or revocation and reissuance of the permit at the earliest time such information becomes available, such as plans for physical alterations or additions to the facility that:

- a. could significantly change the nature of, or increase the quantity of, pollutants discharged; or
- b. the Commissioner may request to evaluate whether such cause exists.

In accordance with 327 IAC 5-1-3(a)(5), the permittee must also provide any information reasonably requested by the Commissioner.

4. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must obtain and submit a renewal of this permit in accordance with 327 IAC 5-3-2(a)(2). It is the permittee's responsibility to obtain and submit the application. In accordance with 327 IAC 5-2-3(c), the owner

of the facility or operation from which a discharge of pollutants occurs is responsible for applying for and obtaining the NPDES permit, except where the facility or operation is operated by a person other than an employee of the owner in which case it is the operator's responsibility to apply for and obtain the permit. The application must be submitted at least 180 days before the expiration date of this permit. This deadline may be extended if:

- a. permission is requested in writing before such deadline;
- b. IDEM grants permission to submit the application after the deadline; and
- c. the application is received no later than the permit expiration date.

As required under 327 IAC 5-2-3(g)(1) and (2), POTWs with design influent flows equal to or greater than one million (1,000,000) gallons per day and POTWs with an approved pretreatment program or that are required to develop a pretreatment program, will be required to provide the results of whole effluent toxicity testing as part of their NPDES renewal application.

5. Transfers

In accordance with 327 IAC 5-2-8(4)(D), this permit is nontransferable to any person except in accordance with 327 IAC 5-2-6(c). This permit may be transferred to another person by the permittee, without modification or revocation and reissuance being required under 327 IAC 5-2-16(c)(1) or 16(e)(4), if the following occurs:

- a. the current permittee notified the Commissioner at least thirty (30) days in advance of the proposed transfer date.
- b. a written agreement containing a specific date of transfer of permit responsibility and coverage between the current permittee and the transferee (including acknowledgment that the existing permittee is liable for violations up to that date, and the transferee is liable for violations from that date on) is submitted to the Commissioner.
- c. the transferee certifies in writing to the Commissioner their intent to operate the facility without making such material and substantial alterations or additions to the facility as would significantly change the nature or quantities of pollutants discharged and thus constitute cause for permit modification under 327 IAC 5-2-16(d). However, the Commissioner may allow a temporary transfer of the permit without permit modification for good cause, e.g., to enable the transferee to purge and empty the facility's treatment system prior to making alterations, despite the transferee's intent to make such material and substantial alterations or additions to the facility.

- d. the Commissioner, within thirty (30) days, does not notify the current permittee and the transferee of the intent to modify, revoke and reissue, or terminate the permit and to require that a new application be filed rather than agreeing to the transfer of the permit.

The Commissioner may require modification or revocation and reissuance of the permit to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act or state law.

6. Permit Actions

In accordance with 327 IAC 5-2-16(b) and 327 IAC 5-2-8(4), this permit may be modified, revoked and reissued, or terminated for cause, including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Failure of the permittee to disclose fully all relevant facts or misrepresentation of any relevant facts in the application, or during the permit issuance process; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge controlled by the permittee (e.g., plant closure, termination of the discharge by connecting to a POTW, a change in state law or information indicating the discharge poses a substantial threat to human health or welfare).

Filing of either of the following items does not stay or suspend any permit condition: (1) a request by the permittee for a permit modification, revocation and reissuance, or termination, or (2) submittal of information specified in Part II.A.3 of the permit including planned changes or anticipated noncompliance.

The permittee shall submit any information that the permittee knows or has reason to believe would constitute cause for modification or revocation and reissuance of the permit at the earliest time such information becomes available, such as plans for physical alterations or additions to the permitted facility that:

1. could significantly change the nature of, or increase the quantity of, pollutants discharged; or
2. the commissioner may request to evaluate whether such cause exists.

7. Property Rights

Pursuant to 327 IAC 5-2-8(6) and 327 IAC 5-2-5(b), the issuance of this permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to persons or private property or an invasion of rights, any infringement of federal, state, or local laws or regulations. The issuance of the permit also does not

preempt any duty to obtain any other state, or local assent required by law for the discharge or for the construction or operation of the facility from which a discharge is made.

8. Severability

In accordance with 327 IAC 1-1-3, the provisions of this permit are severable and, if any provision of this permit or the application of any provision of this permit to any person or circumstance is held invalid, the invalidity shall not affect any other provisions or applications of the permit which can be given effect without the invalid provision or application.

9. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under Section 311 of the Clean Water Act.

10. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Clean Water Act or state law.

11. Penalties for Violation of Permit Conditions

Pursuant to IC 13-30-4, a person who violates any provision of this permit, the water pollution control laws; environmental management laws; or a rule or standard adopted by the Environmental Rules Board is liable for a civil penalty not to exceed twenty-five thousand dollars (\$25,000) per day of any violation.

Pursuant to IC 13-30-5, a person who obstructs, delays, resists, prevents, or interferes with (1) the department; or (2) the department's personnel or designated agent in the performance of an inspection or investigation performed under IC 13-14-2-2 commits a class C infraction.

Pursuant to IC 13-30-10-1.5(k), a person who willfully or recklessly violates any NPDES permit condition or filing requirement, any applicable standards or limitations of IC 13-18-3-2.4, IC 13-18-4-5, IC 13-18-8, IC 13-18-9, IC 13-18-10, IC 13-18-12, IC 13-18-14, IC 13-18-15, or IC 13-18-16, or who knowingly makes any false material statement, representation, or certification in any NPDES form, notice, or report commits a Class C misdemeanor.

Pursuant to IC 13-30-10-1.5(l), an offense under IC 13-30-10-1.5(k) is a Level 6 felony if the offense results in damage to the environment that renders the environment unfit for human or vertebrate animal life. An offense under IC 13-30-10-1.5(k) is a Level 5 felony if the offense results in the death of another person.

12. Penalties for Tampering or Falsification

In accordance with 327 IAC 5-2-8(10), the permittee shall comply with monitoring, recording, and reporting requirements of this permit. The Clean Water Act, as well as IC 13-30-10, provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under a permit shall, upon conviction, be punished by a fine of not more than ten thousand dollars (\$10,000) per violation, or by imprisonment for not more than one hundred eighty (180) days per violation, or by both.

13. Toxic Pollutants

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Clean Water Act for a toxic pollutant injurious to human health, and that standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition in accordance with 327 IAC 5-2-8(5). Effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants injurious to human health are effective and must be complied with, if applicable to the permittee, within the time provided in the implementing regulations, even absent permit modification.

14. Operator Certification

The permittee shall have the wastewater treatment facilities under the responsible charge of an operator certified by the Commissioner in a classification corresponding to the classification of the wastewater treatment plant as required by IC 13-18-11-11 and 327 IAC 5-22. In order to operate a wastewater treatment plant the operator shall have qualifications as established in 327 IAC 5-22-7. The permittee shall designate one (1) person as the certified operator with complete responsibility for the proper operations of the wastewater facility.

327 IAC 5-22-10.5(a) provides that a certified operator may be designated as being in responsible charge of more than one (1) wastewater treatment plant, if it can be shown that he will give adequate supervision to all units involved. Adequate supervision means that sufficient time is spent at the plant on a regular basis to assure that the certified operator is knowledgeable of the actual operations and that test reports and results are representative of the actual operations conditions. In accordance with 327 IAC 5-22-3(11), "responsible charge" means the person responsible for the overall daily operation, supervision, or management of a wastewater facility.

Pursuant to 327 IAC 5-22-10(4), the permittee shall notify IDEM when there is a change of the person serving as the certified operator in responsible charge of the wastewater treatment facility. The notification shall be made no later than thirty (30) days after a change in the operator.

15. Construction Permit

Except in accordance with 327 IAC 3, the permittee shall not construct, install, or modify any water pollution treatment/control facility as defined in 327 IAC 3-1-2(24). Upon completion of any construction, the permittee must notify the Compliance Data Section of the Office of Water Quality in writing.

16. Inspection and Entry

In accordance with 327 IAC 5-2-8(8), the permittee shall allow the Commissioner, or an authorized representative, (including an authorized contractor acting as a representative of the Commissioner) upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the permittee's premises where a point source, regulated facility, or activity is located or conducted, or where records must be kept pursuant to the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment or methods (including monitoring and control equipment), practices, or operations regulated or required pursuant to this permit; and
- d. Sample or monitor at reasonable times, any discharge of pollutants or internal wastestreams for the purposes of evaluating compliance with the permit or as otherwise authorized.

17. New or Increased Discharge of Pollutants

This permit prohibits the permittee from undertaking any action that would result in a new or increased discharge of a bioaccumulative chemical of concern (BCC) or a new or increased permit limit for a regulated pollutant that is not a BCC unless one of the following is completed prior to the commencement of the action:

- a. Information is submitted to the Commissioner demonstrating that the proposed new or increased discharges will not cause a significant lowering of water quality as defined under 327 IAC 2-1.3-2(50). Upon review of this information, the Commissioner may request additional information or may determine that the proposed increase is a significant lowering of water quality and require the submittal of an antidegradation demonstration.
- b. An antidegradation demonstration is submitted to and approved by the Commissioner in accordance with 327 IAC 2-1.3-5 and 327 IAC 2-1.3-6.

B. MANAGEMENT REQUIREMENTS

1. Facility Operation, Maintenance and Quality Control

- a. In accordance with 327 IAC 5-2-8(9), the permittee shall at all times maintain in good working order and efficiently operate all facilities and systems (and related appurtenances, i.e., equipment used for measuring and determining compliance) for collection and treatment that are:

- (1) installed or used by the permittee; and
- (2) necessary for achieving compliance with the terms and conditions of the permit.

Neither 327 IAC 5-2-8(9), nor this provision, shall be construed to require the operation of installed treatment facilities that are unnecessary for achieving compliance with the terms and conditions of the permit. This provision also does not prohibit taking redundant treatment units off line, provided that the permittee is at all times: maintaining in good working order and efficiently operating all facilities and systems; providing best quality effluent; and achieving compliance with the terms and conditions of the permit.

- b. The permittee shall operate the permitted facility in a manner which will minimize upsets and discharges of excessive pollutants. The permittee shall properly remove and dispose of excessive solids and sludges.
- c. The permittee shall provide an adequate operating staff which is duly qualified to carry out the operation, maintenance, and testing functions required to ensure compliance with the conditions of this permit.
- d. Maintenance of all waste collection, control, treatment, and disposal facilities shall be conducted in a manner that complies with the bypass provisions set forth below.
- e. Pursuant to 327 IAC 5-22-10(1), the permittee is responsible for providing adequate funding for and oversight of the wastewater treatment plant and collection system to ensure proper operation, maintenance, management, and supervision.
- f. Any extensions to the sewer system must continue to be constructed on a separated basis. Plans and specifications, when required, for extension of the sanitary system must be submitted to the Facility Construction and Engineering Support Section, Office of Water Quality in accordance with 327 IAC 3-2-2. There shall also be an ongoing preventative maintenance program for the sanitary sewer system.

2. Bypass of Treatment Facilities

Pursuant to 327 IAC 5-2-8(12):

a. Terms as defined in 327 IAC 5-2-8(12)(A):

- (1) “Bypass” means the intentional diversion of a waste stream from any portion of a treatment facility.
- (2) “Severe property damage” means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypasses, as defined above, are prohibited, and the Commissioner may take enforcement action against a permittee for bypass, unless:

- (1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage, as defined above;
- (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
- (3) The permittee submitted notices as required under Part II.B.2.d; or
- (4) The condition under Part II.B.2.f below is met.

c. Bypasses that result in death or acute injury or illness to animals or humans must be reported in accordance with the “Spill Response and Reporting Requirements” in 327 IAC 2-6.1, including calling 888/233-7745 as soon as possible, but within two (2) hours of discovery. However, under 327 IAC 2-6.1-3(1), when the constituents of the bypass are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.

d. The permittee must provide the Commissioner with the following notice:

- (1) If the permittee knows or should have known in advance of the need for a bypass (anticipated bypass), it shall submit prior written notice. If possible, such notice shall be provided at least ten (10) days before the date of the bypass for approval by the Commissioner.

- (2) The permittee shall orally report an unanticipated bypass within 24 hours of becoming aware of the bypass event. The permittee must also provide a written report within five (5) days of the time the permittee becomes aware of the bypass event. The written report must contain a description of the noncompliance (i.e. the bypass) and its cause; the period of noncompliance, including exact dates and times; if the cause of noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent recurrence of the bypass event. If a complete email submittal is sent within 24 hours of the time that the permittee became aware of the unanticipated bypass event, then that report will satisfy both the oral and written reporting requirement.
- e. The Commissioner may approve an anticipated bypass, after considering its adverse effects, if the Commissioner determines that it will meet the conditions listed above in Part II.B.2.b. The Commissioner may impose any conditions determined to be necessary to minimize any adverse effects.
- f. The permittee may allow any bypass to occur that does not cause a violation of the effluent limitations in the permit, but only if it also is for essential maintenance to ensure efficient operation. These bypasses are not subject to the provisions of Part II.B.2.b.,d and e of this permit.

3. Upset Conditions

Pursuant to 327 IAC 5-2-8(13):

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. An upset shall constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Paragraph c of this subsection, are met.
- c. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, that:
 - (1) An upset occurred and the permittee has identified the specific cause(s) of the upset;
 - (2) The permitted facility was at the time being operated in compliance with proper operation and maintenance procedures;

- (3) The permittee complied with any remedial measures required under “Duty to Mitigate”, Part II.A.2; and
 - (4) The permittee submitted notice of the upset as required in the “Incident Reporting Requirements,” Part II.C.3, or 327 IAC 2-6.1, whichever is applicable. However, under 327 IAC 2-6.1-3(1), when the constituents of the discharge are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.
- d. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof pursuant to 40 CFR 122.41(n)(4).

4. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the State and to be in compliance with all Indiana statutes and regulations relative to liquid and/or solid waste disposal.

- a. Collected screenings, slurries, sludges, and other such pollutants shall be disposed of in accordance with provisions set forth in 329 IAC 10, 327 IAC 6.1, or another method approved by the Commissioner.
- b. The permittee shall comply with existing federal regulations governing solids disposal, and with applicable provisions of 40 CFR Part 503, the federal sludge disposal regulation standards.
- c. The permittee shall notify the Commissioner prior to any changes in sludge use or disposal practices.
- d. The permittee shall maintain records to demonstrate its compliance with the above disposal requirements.

5. Power Failures

In accordance with 327 IAC 5-2-10 and 327 IAC 5-2-8(14) in order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. provide an alternative power source sufficient to operate facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, or

- b. shall halt, reduce or otherwise control all discharge in order to maintain compliance with the effluent limitations and conditions of this permit upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit.

6. Unauthorized Discharge

Any overflow or release of sanitary wastewater from the wastewater treatment facilities or collection system that results in a discharge to waters of the state and is not specifically authorized by this permit is expressly prohibited. These discharges are subject to the reporting requirements in Part II.C.3 of this permit.

C. REPORTING REQUIREMENTS

1. Planned Changes in Facility or Discharge

Pursuant to 327 IAC 5-2-8(11)(F) and 5-2-16(d), the permittee shall give notice to the Commissioner as soon as possible of any planned alterations or additions to the facility (which includes any point source) that could significantly change the nature of, or increase the quantity of, pollutants discharged. Following such notice, the permit may be modified to revise existing pollutant limitations and/or to specify and limit any pollutants not previously limited. Material and substantial alterations or additions to the permittee's operation that were not covered in the permit (e.g., production changes, relocation or combination of discharge points, changes in the nature or mix of products produced) are also cause for modification of the permit. However those alterations which constitute total replacement of the process or the production equipment causing the discharge converts it into a new source, which requires the submittal of a new NPDES application.

2. Monitoring Reports

Pursuant to 327 IAC 5-2-8(10), 327 IAC 5-2-13, and 327 IAC 5-2-15, monitoring results shall be reported at the intervals and in the form specified in "Data On Plant Operation", Part I.B.2.

3. Incident Reporting Requirements

Pursuant to 327 IAC 5-2-8(11) and 327 IAC 5-1-3, the permittee shall orally report to the Commissioner information on the following incidents within 24 hours from the time permittee becomes aware of such occurrence. If the incident meets the emergency criteria of item b (Part II.C.3.b) or 327 IAC 2-6.1, then the report shall be made as soon as possible, but within two (2) hours of discovery. However, under 327 IAC 2-6.1-3(1), when the constituents of the discharge are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.

- a. Any unanticipated bypass which exceeds any effluent limitation in the permit;

- b. Any emergency incident which may pose a significant danger to human health or the environment. Reports under this item shall be made as soon as the permittee becomes aware of the incident by calling 317/233-7745 (888/233-7745 toll free in Indiana). This number should only be called when reporting these emergency events;
- c. Any upset (as defined in Part II.B.3 above) that exceeds any technology-based effluent limitations in the permit;
- d. Any release, including basement backups, from the sanitary sewer system (including satellite sewer systems operated or maintained by the permittee) not specifically authorized by this permit. Reporting of known releases from private laterals not caused by a problem in the sewer system owned or operated by the permittee is not required under Part II.C.3, however, documentation of such events must be maintained by the permittee and available for review by IDEM staff; or
- e. Any discharge from any outfall from which discharge is explicitly prohibited by this permit as well as any discharge from any other outfall or point not listed in this permit.

The permittee can make the oral reports by calling 317/232-8670 during regular business hours and asking for the Compliance Data Section, or by calling (317/233-7745) (888/233-7745 toll free in Indiana) during non-business hours. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the event and its cause; the period of occurrence, including exact dates and times, and, if the event has not concluded, the anticipated time it is expected to continue; and steps taken or planned to reduce, mitigate and eliminate the event and steps taken or planned to prevent its recurrence. The Commissioner may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. Alternatively the permittee may submit a "Bypass Overflow/Incident Report" (State Form 48373) or a "Noncompliance Notification Report" (State Form 54215), whichever is appropriate, to IDEM at wwreports@idem.IN.gov. If a complete submittal is sent within 24 hours of the time that the permittee became aware of the occurrence, then that report will satisfy both the oral and written reporting requirements.

4. Other Noncompliance

Pursuant to 327 IAC 5-2-8(11)(D), the permittee shall report any instance of noncompliance not reported under the "Incident Reporting Requirements" in Part II.C.3 at the time the pertinent Discharge Monitoring Report is submitted. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent the noncompliance.

5. Other Information

Pursuant to 327 IAC 5-2-8(11)(E), where the permittee becomes aware that it failed to submit any relevant facts or submitted incorrect information in a permit application or in any report to the Commissioner, the permittee shall promptly submit such facts or corrected information to the Commissioner.

6. Signatory Requirements

Pursuant to 327 IAC 5-2-22 and 327 IAC 5-2-8(15):

- a. All reports required by the permit and other information requested by the Commissioner shall be signed and certified by a person described below or by a duly authorized representative of that person:
 - (1) For a corporation: by a principal executive defined as a president, secretary, treasurer, any vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making functions for the corporation or the manager of one or more manufacturing, production, or operating facilities employing more than two hundred fifty (250) persons or having gross annual sales or expenditures exceeding twenty-five million dollars (\$25,000,000) (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - (3) For a federal, state, or local governmental body or any agency or political subdivision thereof: by either a principal executive officer or ranking elected official.
- b. A person is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described above.
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - (3) The authorization is submitted to the Commissioner.
- c. Electronic Signatures. If documents described in this section are submitted electronically by or on behalf of the NPDES-regulated facility, any person providing the electronic signature for such documents shall meet all relevant requirements of

this section, and shall ensure that all of the relevant requirements of 40 CFR part 3 (including, in all cases, subpart D to part 3) (Cross-Media Electronic Reporting) and 40 CFR part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

- d. Certification. Any person signing a document identified under paragraphs a and b of this section, shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

7. Availability of Reports

Except for data determined to be confidential under 327 IAC 12.1, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Indiana Department of Environmental Management and the Regional Administrator. As required by the Clean Water Act, permit applications, permits, and effluent data shall not be considered confidential.

8. Penalties for Falsification of Reports

IC 13-30 and 327 IAC 5-2-8(15) provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 180 days per violation, or by both.

9. Progress Reports

In accordance with 327 IAC 5-2-8(11)(A), reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.

10. Advance Notice for Planned Changes

In accordance with 327 IAC 5-2-8(11)(B), the permittee shall give advance notice to IDEM of any planned changes in the permitted facility, any activity, or other circumstances that the permittee has reason to believe may result in noncompliance with permit requirements.

11. Additional Requirements for POTWs and/or Treatment Works Treating Domestic Sewage

- a. All POTWs shall identify, in terms of character and volume of pollutants, any significant indirect discharges into the POTW which are subject to pretreatment standards under section 307(b) and 307 (c) of the CWA.
- b. All POTWs must provide adequate notice to the Commissioner of the following:
 - (1) Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to section 301 or 306 of the CWA if it were directly discharging those pollutants.
 - (2) Any substantial change in the volume or character of pollutants being introduced into that POTW by any source where such change would render the source subject to pretreatment standards under section 307(b) or 307(c) of the CWA or would result in a modified application of such standards.

As used in this clause, “adequate notice” includes information on the quality and quantity of effluent introduced into the POTW, and any anticipated impact of the change on the quantity or quality of the effluent to be discharged from the POTW.

- c. This permit incorporates any conditions imposed in grants made by the U.S. EPA and/or IDEM to a POTW pursuant to Sections 201 and 204 of the Clean Water Act, that are reasonably necessary for the achievement of effluent limitations required by Section 301 of the Clean Water Act.
- d. This permit incorporates any requirements of Section 405 of the Clean Water Act governing the disposal of sewage sludge from POTWs or any other treatment works treating domestic sewage for any use for which rules have been established in accordance with any applicable rules.
- e. POTWs must develop and submit to the Commissioner a POTW pretreatment program when required by 40 CFR 403 and 327 IAC 5-19-1, in order to assure compliance by industrial users of the POTW with applicable pretreatment standards established under Sections 307(b) and 307(c) of the Clean Water Act. The pretreatment program shall meet the criteria of 327 IAC 5-19-3 and, once approved, shall be incorporated into the POTW’s NPDES permit.

12. Electronic Reporting

IDEM is currently developing the technology and infrastructure necessary to allow compliance with the EPA Phase 2 e-reporting requirements per 40 CFR 127.16 and to allow electronic reporting of applications, notices, plans, reports, and other information not covered by the federal e-reporting regulations.

IDEM will notify the permittee when IDEM's e-reporting system is ready for use for one or more applications, notices, plans, reports, or other information. This IDEM notice will identify the specific applications, notices, plans, reports, or other information that are to be submitted electronically and the permittee will be required to use the IDEM electronic reporting system to submit the identified application(s), notice(s), plan(s), report(s), or other information.

See Part I.B.3., Monthly Reporting, for the electronic reporting requirements for the monthly monitoring reports such as the Discharge Monitoring Report (DMR), Monthly Report of Operation (MRO) and Monthly Monitoring Report (MMR).

D. ADDRESSES

1. Municipal NPDES Permits Section

Indiana Department of Environmental Management
Office of Water Quality – Rm 1255
Municipal NPDES Permits Section
100 N. Senate Avenue
Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Municipal NPDES Permits Section:

- a. NPDES permit applications (new, renewal or modifications) with fee
- b. Preliminary Effluent Limits request letters
- c. Comment letters pertaining to draft NPDES permits
- d. NPDES permit transfer of ownership requests
- e. NPDES permit termination requests
- f. Notifications of substantial changes to a treatment facility, including new industrial sources
- g. Combined Sewer Overflow (CSO) Operational Plans
- h. CSO Long Term Control Plans (LTCP)
- i. Stream Reach Characterization and Evaluation Reports (SRCER)

2. Facility Construction and Engineering Support Section

Indiana Department of Environmental Management
Office of Water Quality – Rm 1255
Facility Construction and Engineering Support Section
100 N. Senate Avenue
Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Facility Construction and Engineering Support Section:

- a. Construction permit applications with fee

3. Compliance Data Section

Indiana Department of Environmental Management
Office of Water Quality – Rm 1255
Compliance Data Section
100 N. Senate Avenue
Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Compliance Data Section:

- a. Discharge Monitoring Reports (DMRs)
- b. Monthly Reports of Operation (MROs)
- c. Monthly Monitoring Reports (MMRs)
- d. CSO MROs
- e. Gauging station and flow meter calibration documentation
- f. Compliance schedule progress reports
- g. Completion of Construction notifications
- h. Whole Effluent Toxicity Testing reports
- i. Toxicity Reduction Evaluation (TRE) plans and progress reports
- j. Bypass/Overflow Reports
- k. Anticipated Bypass/Overflow Reports
- l. Streamlined Mercury Variance Annual Reports

4. Pretreatment Group

Indiana Department of Environmental Management
Office of Water Quality – Rm 1255
Compliance Data Section – Pretreatment Group
100 N. Senate Avenue
Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Pretreatment Group:

- a. Organic Pollutant Monitoring Reports
- b. Significant Industrial User (SIU) Quarterly Noncompliance Reports
- c. Pretreatment Program Annual Reports
- d. Sewer Use Ordinances
- e. Enforcement Response Plans (ERP)
- f. Sludge analytical results

Briefing Memo

March 9, 2018

Town of Hebron Wastewater Treatment Plant
located at 101 Utility Drive, Hebron, Indiana, Porter County

<u>Outfall Location</u>	Latitude:	41° 18' 55" N
	Longitude:	87° 11' 18" W

NPDES Permit No. IN0020061

Background

This is the proposed renewal of the NPDES permit for the Town of Hebron Wastewater Treatment Plant which was issued on August 23, 2013 and has an expiration date of October 31, 2018. The permittee submitted an application for renewal which was received on March 6, 2018. The permittee currently operates a Class II, 0.52 MGD trickling filter-type wastewater treatment facility consisting of a bar screen, an influent flow meter, three (3) primary clarifier-digesters, a trickling filter, an intermediate clarifier, two (2) nitrification towers, three (3) final clarifiers, ultraviolet (UV) light disinfection unit, and an effluent meter.

Collection System

The collection system is comprised of 100% separate sanitary sewers by design with no overflow or bypass points.

Spill Reporting Requirements

Reporting requirements associated with the Spill Reporting, Containment, and Response requirements of 327 IAC 2-6.1 are included in Part II.B.2.c. and Part II.C.3. of the NPDES permit. Spills from the permitted facility meeting the definition of a spill under 327 IAC 2-6.1-4(15), the applicability requirements of 327 IAC 2-6.1-1, and the Reportable Spills requirements of 327 IAC 2-6.1-5 (other than those meeting an exclusion under 327 IAC 2-6.1-3 or the criteria outlined below) are subject to the Reporting Responsibilities of 327 IAC 2-6.1-7.

It should be noted that the reporting requirements of 327 IAC 2-6.1 do not apply to those discharges or exceedences that are under the jurisdiction of an applicable permit when the substance in question is covered by the permit and death or acute injury or illness to animals or humans does not occur. In order for a discharge or exceedence to be under the jurisdiction of this NPDES permit, the substance in question (a) must have been discharged in the normal course of operation from an outfall listed in this permit, and (b) must have been discharged from an outfall for which the permittee has authorization to discharge that substance.

Solids Disposal

The permittee is required to dispose of its sludge in accordance with 329 IAC 10, 327 IAC 6.1, or 40 CFR Part 503.

Receiving Stream

The facility discharges to Cobb Creek via Outfall 001. The receiving water has a seven day, ten year low flow ($Q_{7,10}$) of 0.2 cubic feet per second (0.13 MGD) at the outfall location. This provides a dilution ratio of receiving stream flow to treated effluent of 0.25:1. The receiving stream is designated for full body contact recreational use and shall be capable of supporting a well-balanced warm water aquatic community in accordance with 327 IAC 2-1. Cobb Creek is not designated as impaired on the 2016 Indiana 303(d) List of Impaired Waters. A TMDL study for Cobb Creek has not been approved and one is not in progress.

Industrial Contributions

There is no industrial flow to the wastewater treatment plant. This NPDES permit does not authorize the facility to accept industrial contributions until the permittee has provided the Indiana Department of Environmental Management with a characterization of the waste, including volume amounts, and this Office has determined whether effluent limitations are needed to ensure the State water quality standards are met in the receiving stream.

Antidegradation

327 IAC 2-1.3 outlines the state's Antidegradation Standards and Implementation Procedures. The Tier 1 antidegradation standard found in 327 IAC 2-1.3-3(a) applies to all surface waters of the state regardless of their existing water quality. Based on this standard, for all surface waters of the state, existing uses and the level of water quality necessary to protect existing uses shall be maintained and protected. IDEM implements the Tier 1 antidegradation standard by requiring NPDES permits to contain effluent limits and best management practices for regulated pollutants that ensure the narrative and numeric water quality criteria applicable to the designated use are achieved in the water and any designated use of the downstream water is maintained and protected.

The Tier 2 antidegradation standard found in 327 IAC 2-1.3-3(b) applies to surface waters of the state where the existing quality for a parameter is better than the water quality criterion for that parameter established in 327 IAC 2-1-6. These surface waters are considered high quality for the parameter and this high quality shall be maintained and protected unless the commissioner finds that allowing a significant lowering of water quality is necessary and accommodates important social or economic development in the area in which the waters are located. IDEM implements the Tier 2 antidegradation standard for regulated pollutants with numeric water quality criteria quality adopted in or developed pursuant to 327 IAC 2-1 and utilizes the antidegradation implementation procedures in 327 IAC 2-1.3-5 and 2-1.3-6.

According to 327 IAC 2-1.3-1(b), the antidegradation implementation procedures in 327 IAC 2-1.3-5 and 2-1.3-6 apply to a proposed new or increased loading of a regulated pollutant to surface waters

of the state from a deliberate activity subject to the Clean Water Act, including a change in process or operation that will result in a significant lowering of water quality. The NPDES permit does not propose to establish a new or increased loading of a regulated pollutant; therefore, the Antidegradation Implementation Procedures in 327 IAC 2-1.3-5 and 2-1.3-6 do not apply to the permitted discharge.

Effluent Limitations and Rationale

The effluent limitations proposed herein are based on Indiana Water Quality Standards, NPDES regulations, and Wasteload Allocation (WLA) analyses performed by this Office's Permits Branch staff on May 21, 2003 and on August 20, 1993. These limits are in accordance with antibacksliding regulations specified in 327 IAC 5-2-10(a)(11)(A). Monitoring frequencies are based upon facility size and type. The final effluent limitations to be limited and/or monitored include: Flow, Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Suspended Solids (TSS), Ammonia-nitrogen (NH₃-N), pH, Dissolved Oxygen (DO), and *Escherichia coli* (*E. coli*).

Final Effluent Limitations

The summer monitoring period runs from May 1 through November 30 of each year and the winter monitoring period runs from December 1 through April 30 of each year. The disinfection season runs from April 1 through October 31 of each year. The mass limits for CBOD₅, TSS, and ammonia-nitrogen are calculated by multiplying the average design flow (in MGD) by the corresponding concentration value and by 8.345.

Influent Monitoring

The raw influent and the wastewater from intermediate unit treatment processes, as well as the final effluent shall be sampled and analyzed for the pollutants and operational parameters specified by the applicable Monthly Report of Operation Form, as appropriate, in accordance with 327 IAC 5-2-13 and Part I.B.2 of the permit. Except where the permit specifically states otherwise, the sample frequency for the raw influent and intermediate unit treatment process shall be at a minimum the same frequency as that for the final effluent. The measurement frequencies specified in each of the tables in Part I.A. are the minimum frequencies required by the permit.

Flow

Flow is to be measured five (5) times weekly as a 24-hour total. Reporting of flow is required by 327 IAC 5-2-13.

CBOD₅

CBOD₅ is limited to 25 mg/l (108 lbs/day) as a monthly average and 40 mg/l (174 lbs/day) as a weekly average. Monitoring is to be conducted three (3) times weekly by 24-hour composite sampling. The CBOD₅ concentration limitations included in this permit are set in accordance with

the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on May 21, 2003 and are the same as the concentration limitations found in the facility's previous permit.

TSS

TSS is limited to 30 mg/l (130 lbs/day) as a monthly average and 45 mg/l (195 lbs/day) as a weekly average. Monitoring is to be conducted three (3) times weekly by 24-hour composite sampling. The TSS concentration limitations included in this permit are set in accordance with the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on May 21, 2003 and are the same as the concentration limitations found in the facility's previous permit.

Ammonia-nitrogen

Ammonia-nitrogen is limited to 3.1 mg/l (13.5 lbs/day) as a monthly average and 4.7 mg/l (20.4 lbs/day) as a weekly average during the summer monitoring period. During the winter monitoring period, ammonia-nitrogen is limited to 4.7 mg/l (20.4 lbs/day) as a monthly average and 7.0 mg/l (30.4 lbs/day) as a weekly average. Monitoring is to be conducted three (3) times weekly by 24-hour composite sampling. The ammonia-nitrogen concentration limitations in this permit are set in accordance with the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on August 20, 1993 and antibacksliding regulations specified in 327 IAC 5-2-10(11)(A). These ammonia-nitrogen limitations are the same as the limitations found in the facility's previous permit.

pH

The pH limitations have been based on 40 CFR 133.102 which is cross-referenced in 327 IAC 5-5-3. To ensure conditions necessary for the maintenance of a well-balanced aquatic community, the pH of the final effluent must be between 6.0 and 9.0 standard units in accordance with provisions in 327 IAC 2-1-6(b)(2). pH must be measured five (5) times weekly by grab sampling. These pH limitations are the same as the limitations found in the facility's previous permit.

Dissolved Oxygen

Dissolved oxygen shall not fall below 5.0 mg/l as a daily minimum average during the summer monitoring period. During the winter monitoring period, dissolved oxygen shall not fall below 4.0 mg/l as a daily minimum average. Dissolved oxygen measurements must be based on the average of three (3) grab samples taken within a 24-hr. period. This monitoring is to be conducted five (5) times weekly. The dissolved oxygen concentration limitations in this permit are set in accordance with a Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on May 21, 2003 and are the same as the concentration limitations found in the facility's previous permit.

E. coli

The *E. coli* limitations and monitoring requirements apply from April 1 through October 31, annually. *E. coli* is limited to 125 count/100 ml as a monthly average, and 235 count/100 ml as a daily maximum. The monthly average *E. coli* value shall be calculated as a geometric mean. This monitoring is to be conducted three (3) times weekly by grab sampling. These *E. coli* limitations are set in accordance with regulations specified in 327 IAC 5-10-6.

Backsliding

None of the concentration limits included in this permit conflict with antibacksliding regulations found in 327 IAC 5-2-10(a)(11)(A), therefore, backsliding is not an issue.

Reopening Clauses

Three (3) reopening clauses were incorporated into the permit in Part I.C. One clause is to incorporate effluent limits from any further wasteload allocations performed; a second clause is to allow for changes in the sludge disposal standards; and a third clause is to incorporate any applicable effluent limitation or standard issued or approved under section 301(b)(2)(C), (D) and (E), 304(b)(2), and 307(a)(2) of the Clean Water Act.

Compliance Status

The permittee has no enforcement actions at the time of this permit preparation. The permittee received and responded to a Notice of Violation (NOV) letter dated January 12, 2017 citing the permittee for unsatisfactory SSO (sewer overflow) compliance, marginal maintenance compliance, marginal self-monitoring compliance, unsatisfactory flow measurement compliance, marginal laboratory compliance, and marginal effluent limits compliance. The permittee received and responded to a Noncompliance letter dated July 28, 2017 citing the permittee for exceedance of ammonia-nitrogen effluent limits for the months of January through May 2017 and for exceedance of Total Suspended Solids (TSS) for the month of May 2017. The facility has communicated remediation plans to IDEM OWQ's Wastewater Compliance Branch, with the intent to re-achieve and subsequently maintain compliance with NPDES Permit No. IN0020061.

Expiration Date

A five-year NPDES permit is proposed.

Drafted by: Vanessa Snyder
March 9, 2018

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
PUBLIC NOTICE NO: 2018 – 5G – F
DATE OF NOTICE: MAY 24, 2018

The Office of Water Quality issues the following NPDES FINAL PERMIT.

MINOR – RENEWAL

HEBRON (town) WWTP, Permit No. IN0020061, PORTER COUNTY, 101 Utility Dr., Hebron, IN. This municipal facility discharges 0.52 million gallons daily of sanitary wastewater into Cobb Creek. Permit Manager: Vanessa Snyder, vsnyder@idem.in.gov, 317/232-4871.

Notice of Right to Administrative Review [Permits]

If you wish to challenge this Permit, you must file a Petition for Administrative Review with the Office of Environmental Adjudication (OEA), and serve a copy of the Petition upon IDEM. The requirements for filing a Petition for Administrative Review are found in IC 4-21.5-3-7, IC 13-15-6-1 and 315 IAC 1-3-2. A summary of the requirements of these laws is provided below.

A Petition for Administrative Review must be filed with the Office of Environmental Adjudication (OEA) within fifteen (15) days of the issuance of this notice (eighteen (18) days if you received this notice by U.S. Mail), and a copy must be served upon IDEM. Addresses are:

Director
Office of Environmental Adjudication
Indiana Government Center North
100 North Senate Avenue - Room N103
Indianapolis, Indiana 46204

Commissioner
Indiana Department of Environmental Management
Indiana Government Center North
100 North Senate Avenue - Room 1301
Indianapolis, Indiana 46204

The Petition must contain the following information:

1. The name, address and telephone number of each petitioner.
2. A description of each petitioner's interest in the Permit.
3. A statement of facts demonstrating that each petitioner is:
 - a. a person to whom the order is directed;
 - b. aggrieved or adversely affected by the Permit;
 - c. entitled to administrative review under any law.
4. The reasons for the request for administrative review.
5. The particular legal issues proposed for review.
6. The alleged environmental concerns or technical deficiencies of the Permit.
7. The Permit terms and conditions that the petitioner believes would be appropriate and would comply with the law.
8. The identity of any persons represented by the petitioner.
9. The identity of the person against whom administrative review is sought.
10. A copy of the Permit that is the basis of the petition.
11. A statement identifying petitioner's attorney or other representative, if any.

Failure to meet the requirements of the law with respect to a Petition for Administrative Review may result in a waiver of your right to seek administrative review of the Permit. Examples are:

1. Failure to file a Petition by the applicable deadline;
2. Failure to serve a copy of the Petition upon IDEM when it is filed; or
3. Failure to include the information required by law.

If you seek to have a Permit stayed during the Administrative Review, you may need to file a Petition for a Stay of Effectiveness. The specific requirements for such a Petition can be found in 315 IAC 1-3-2 and 315 IAC 1-3-2.1.

Pursuant to IC 4-21.5-3-17, OEA will provide all parties with Notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action. If you are entitled to Notice under IC 4-21.5-3-5(b) and would like to obtain notices of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action without intervening in the proceeding you must submit a written request to OEA at the address above.

"More information on the appeal review process is available on the website for the Office of Environmental Adjudication at <http://www.in.gov/oea>."

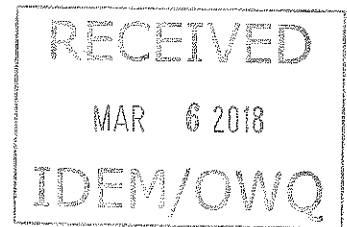


**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SEMI PUBLIC AND MINOR MUNICIPAL PERMIT APPLICATION**

State Form 54924 (R / 3-15)

Approved by State Board of Accounts, 2012

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER QUALITY



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SEMI PUBLIC AND MINOR MUNICIPAL
PERMIT APPLICATION PACKAGE**

This is an application for a National Pollutant Discharge Elimination System (NPDES) permit to discharge treated sanitary wastewater from a semi-public, minor municipal, State, or Federally owned wastewater treatment facility. Facilities with design flows of one (1) million gallons per day (MGD), or greater, are considered major facilities and must complete a Major Municipal Discharger Application.

Included in this package is a checklist noting all items to be submitted with the application. Please ensure that all items appearing on the checklist are accurately completed and submitted to avoid delays and/or denial of the application. Also included in this application package is an application form, a potentially affected persons form, instructions for completion of these forms, and information regarding the fifty dollar (\$50) application fee. For assistance in completing this application, call 317/ 232-8760.

The following information **must** be included as part of the NPDES permit application:

- ☒ Completed, signed Application Form
- ☒ Fifty dollar (\$50) Permit Application Fee
- ☒ Potentially Affected Persons List
- ☒ Topographic map showing plant and outfall(s) location(s)
- ☒ Additional facility diagrams, Combined Sewer Overflow (CSO) listings, etc. necessary to adequately describe facility

Return Completed Application, Fee and Associated Materials to:

Indiana Department of Environmental Management
Office of Water Quality – Mail Code 65-42
Municipal NPDES Permits Section
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- I. NAME OF FACILITY Town of Hebron
- II. CURRENT NPDES PERMIT NUMBER IN00 2061 (New applicants will be assigned a number later.)
- III. MAILING ADDRESS
Address: 106 E. Sigler Road/P.O. Box 478
City: Hebron State: IN ZIP: 46341
- IV. OWNER OR LEGALLY RESPONSIBLE PARTY (TOWN BOARD/COUNCIL PRESIDENT, MAYOR, SUPERINTENDENT)
Name: Pete Breuckman Title: Town Council President
Address: 106 E. Sigler Road/P.O. Box 478
City: Hebron State: IN ZIP: 46341
E-mail address: pbreuckman@comcast.net Telephone number: (219) 996-4641
- V. WASTEWATER TREATMENT PLANT CERTIFIED OPERATOR
Name: Randy Decker Certification number: IN 20040
Classification: II
Address: 952 S. State Road 2
City: Valparaiso State: IN ZIP: 46385
E-mail address: rdecker@mco-us.com Work telephone number: (219) 252-7738
- VI. RESIDENT MANAGER OR PERSON IN CHARGE ON SITE
Name: Randy Decker
Address: 952 S. State Road 2
City: Valparaiso State: IN ZIP: 46385
E-mail address: rdecker@mco-us.com Telephone number: (219) 252-7738
- VII. CONSULTANT / ENGINEER: (IF APPLICABLE)
Name: Tim Bronn Company: McMAHON
Address: 952 S. State Road 2
City: Valparaiso State: IN ZIP: 46385
E-mail address: tbronn@mcmgrp.net Telephone number: (815) 636-9590

NPDES SEMI PUBLIC AND MINOR MUNICIPAL INSTRUCTION SHEET

These instructions are provided to clarify the requirements of the NPDES Semi Public and Minor Municipal Permit Application. Each numbered statement corresponds to the numbered items in the application.

1. Check the appropriate box to indicate the type of ownership:

Semi-Public: any facility not municipally, state, or federally owned (i.e., mobile home parks, schools, restaurants, etc.)

Minor Municipal: any municipally owned facility with a design flow of less than 1 million gallons per day (MGD) (towns, cities)

State Owned: a facility owned by a state agency (state parks, state prisons, etc.)

Federally Owned: a facility owned by a federal agency (military installation, national park, federal penitentiary, etc.)

2. Type of permit requested:

New: the facility has never operated under an NPDES permit

Renewal: the facility is currently operating under a current or expired NPDES permit

Modification: the facility is operating under an NPDES permit but has made or is making significant changes (i.e., treatment process, or amount of flow)

3. Fill in issuance and expiration dates for current or expired NPDES permits.
4. List the actual physical location of the plant so that a person who has never been there can pinpoint it on a map. The description should include street names and addresses, county road numbers, and/or U.S. Geological Survey quadrangle name, section, township and range when applicable.
5. Insert the appropriate volumes in million gallons per day (MGD).

The Average Design Flow is defined as the volume of flow which the facility is designed to treat.

The Average Flow is defined as the average monthly volume of flow through the facility. This number is obtained by averaging the reported flows from the last twelve (12) months of operation.

The Maximum Flow is defined as the maximum amount of flow that the facility is designed to treat.

6. Check the appropriate type of sewer system. If the system is combined storm and sanitary sewers, then also include the percentage of the sewer system that is combined.
7. A Bypass Point is defined as any point in the system where wastewater can be intentionally diverted to avoid treatment at the facility. Check the appropriate box to indicate whether such points exist. Also, list the corresponding 3-digit ID number of each bypass, a detailed location description, and the receiving stream. If more than three (3) bypass points exist, attach a supplemental sheet to this application.
8. An Overflow Point is defined as any point in the collection system where wastewater can be unintentionally discharged from the collection system. Check the appropriate box to indicate whether such points exist. Also, list the corresponding 3-digit ID number of each overflow, a detailed location description, and the receiving stream. If more than three (3) overflow points exist, attach a supplemental sheet to this application.
9. Enter the number of existing plant outfalls other than bypass or overflow points. List all outfalls by their 3-digit ID numbers and provide a detailed description of their location (preferably using longitude and latitude) and their respective receiving streams. Mark each point on a topographic map.

10. Check whether the facility discharges within two (2) miles upstream of any lake, reservoir, or sinkhole. If it does, provide the name of the lake, reservoir, or state that it enters a sinkhole. The distance is to be calculated from the actual outfall point to the receiving stream's entry point to any lake, reservoir, or sinkhole.
11. Check whether the facility discharges within forty (40) miles upstream of any lake, reservoir, or sinkhole. If it does, provide the name of the lake, reservoir, or state that it enters a sinkhole. The distance is to be calculated from the actual outfall point to the receiving stream's entry point to any lake, reservoir, or sinkhole.
12. Enter the distance from this facility to the nearest publicly-owned treatment works measured as a straight line from facility to facility. Also, identify the name of the treatment facility.
13. List the name of the stream receiving the facility's discharge. If the receiving stream is an unnamed ditch, swale, or field tile, then also list the first named water body that the receiving stream flows into (i.e., an unnamed ditch to Blue River).
14. Identify any industries which contribute industrial process wastewater to the collection system. Also, estimate the percentage of total volume of influent that industrial wastewaters comprise and check all the contaminants that have the potential to be present in the industrial wastewaters.
15. If the facility is a municipal treatment facility with significant industrial flow, or is a new facility, enter the population served as well as the population equivalent. The population equivalent is defined by 327 IAC 5-22-3(9) as the calculated population which would contribute a particular amount of biochemical oxygen demand (BOD) per day, using the base of seventeen-hundredths (0.17) pounds of five (5) day BOD per capita per day.
16. If the facility is a semi-public treatment facility, enter the number of customers served.
17. Check the box that describes the level of treatment provided by the treatment facility. Note that any treatment facility designed to remove ammonia is considered to provide advanced treatment.
18. Indicate whether the facility operates as a controlled or continuous discharger. A controlled discharge is defined by 327 IAC 5-1-2-(8) as a discharge of wastewater from a wastewater treatment plant which is designed and operated to control the volume of discharge, either by manual adjustment or by an automated control mechanism, such that the discharge rate does not exceed a prescribed fraction of the stream flow rate at any given time.
19. Check all treatment processes currently in operation at the facility.
20. Check the type of disinfection utilized by the facility, as well as the application method used (i.e., Chlorine tablets, Chlorine gas, etc.). Do the same for the dechlorination question. If the facility utilizes ultra-violet (UV) light disinfection, also indicate whether a UV light intensity meter is installed. If another method of disinfection is utilized, or none at all, please explain.
21. Check the type of sludge handling method(s) utilized. If another method is used, explain.
22. Check the method of sludge disposal utilized. For land application of solid or liquid wastes, include the land application permit number as well. If another method of disposal is utilized, please explain.
23. List any recent, on-going, or proposed construction or change in treatment processes. Describe the construction or changes in detail, including the IDEM construction permit number and month of issuance. Add additional sheets, if necessary.
24. Describe the facility in detail including all equipment, processes and layout. Include a flow diagram, and a copy of a topographic map marking the location of the facility, all combined sewer overflow (CSO) and bypass points, and all plant outfalls.

**NPDES SEMI PUBLIC AND MINOR MUNICIPAL
PERMIT APPLICATION**

NAME OF FACILITY: Town of Hebron

NPDES PERMIT NUMBER: IN00

1. Facility Type:

☐ Semi-Public ☒ Minor Municipal ☐ State Owned ☐ Federally Owned

2. Type of Permit Action Requested:

☐ New ☒ Renewal ☐ Modification

3. If Facility has an Existing Permit:

Date of Issuance (*month/day/year*): 11/01/13 Date of Expiration (*month/day/year*): 10/31/18

4. Facility Location: List the actual physical location of the plant so that a person who has never been there can pinpoint it on a map. The description should include street names and addresses, county road numbers, and/or U.S. Geological Survey quadrangle name, section, township and range when applicable.

Address: 101 utility Dr.

City: Hebron State: In ZIP: 46341 County: Porter

5. Facility Capacity: Please answer the following questions in million gallons per day (MGD):

Average Design Flow 0.52 Average Flow 0.306 Maximum Flow 1.835

6. Collection System: (*check one of the following*)

☒ 100 % Sanitary Sewers ☐ Combined Storm and Sanitary Sewers

If combined, what percentage of collection system is combined? %

7. Does the treatment system contain any bypass points? ☐ Yes ☐ No

If Yes, provide the bypass ID number(s) and corresponding location(s). (*Attach additional sheets, if necessary.*)

ID number: Location: See system description for blending points in WWTP
Receiving Stream:

ID number: Location:
Receiving Stream:

ID number: Location:
Receiving Stream:

NPDES PERMIT NUMBER: IN00 20061

8. Does the treatment system contain any overflow points? ☐ Yes ☒ No

If Yes, provide the bypass ID number(s) and corresponding location(s). (*Attach additional sheets, if necessary.*)

ID number: _____ Location: _____
Latitude/Longitude: _____
Receiving Stream: _____
ID number: _____ Location: _____
Latitude/Longitude: _____
Receiving Stream: _____

9. Facility Outfalls:

Number of separate plant outfalls (other than bypass or overflow points): _____

List all separate plant outfalls below: (*Attach additional sheets, if necessary.*)

ID number: 001 Location: At WWTP
Latitude/Longitude: 48 18' 55". 87 11' 18"
Receiving Stream: Cobb Creek to Breyfogel Ditch to Kankakee Rive
ID number: _____ Location: _____
Latitude/Longitude: _____
Receiving Stream: _____

10. Does the facility discharge within two (2) miles upstream of a lake, reservoir, or sinkhole?

☐ Yes ☒ No If Yes, name of lake, reservoir, or sinkhole _____

11. Does the facility discharge within forty (40) miles upstream of a lake or reservoir?

☐ Yes ☒ No If Yes, name of lake, reservoir, or sinkhole _____

12. What is the distance from this facility to the nearest publicly-owned treatment works? 9 Miles

What is the name of this facility? Town of Kouts

13. Receiving Stream:

Name of receiving stream: (*If the immediate receiving stream is an unnamed ditch, swale, or field tile, so specify, but also give the name of the stream to which it is tributary.*) Cobb Creek

14. Waste Contributors:

Both Municipal and Non-Municipal:

List any industrial process water contributors: none

Percentage of flow due to industry: 0 %

Does the discharge contain or have the potential to contain the following? (*Check all that apply.*)

☐ Al ☐ Cd ☐ Cr ☐ Cu ☐ Pb ☐ Hg ☐ Zn ☐ CN ☐ Ni ☐ Phenols

Others: _____

15. Municipal:

Population Served: 3,724 (2010) Population Equivalent: _____

NPDES PERMIT NUMBER: IN00 20061

16. Semi-Public: (Enter the number of customers currently served by the facility.)

Number of students: K thru 6 _____ Higher grades: _____
Number of mobile home units: _____ Number of campground lots, or motel units: _____
Beds: (If facility serves as a nursing home, hospital, etc.) _____
Commercial Establishments: _____

17. Treatment Description:

Type of Treatment:

☐ Primary ☒ Secondary ☐ Advanced

18. Is your facility designed to operate as a controlled discharger? ☐ Yes ☒ No

19. Treatment Processes: (Check all that apply.)

- | | | |
|--|---|---|
| <input type="checkbox"/> Regular Activated Sludge | <input type="checkbox"/> Rotating Biological Contactors | <input checked="" type="checkbox"/> Anaerobic Digestion |
| <input type="checkbox"/> Two Day Lagoon | <input type="checkbox"/> Extended Aeration | <input type="checkbox"/> Aerobic Digestion |
| <input type="checkbox"/> Phosphorus Removal | <input type="checkbox"/> Oxidation Ditch | <input checked="" type="checkbox"/> Nitrification |
| <input type="checkbox"/> Rapid Sand Filter | <input type="checkbox"/> Sequential Batch Reactor | <input type="checkbox"/> Aerated Lagoons |
| <input type="checkbox"/> Microstrainer | <input type="checkbox"/> Post Aeration | <input checked="" type="checkbox"/> Trickling Filter |
| <input type="checkbox"/> Waste Stabilization Lagoon | <input type="checkbox"/> Flow Equalization | <input checked="" type="checkbox"/> Flow Meter |
| <input type="checkbox"/> Septic Tank | <input type="checkbox"/> Constructed Wetland | |
| <input type="checkbox"/> If other processes are used, please check and explain as part of the facility description in item 24. | | |

20. Disinfection:

- ☐ Chlorination Type/Method: _____
- ☐ Dechlorination Type/Method: _____
- ☒ Ultra-violet Light If ultra-violet light is used, is a UV light intensity meter installed? ☒ Yes ☐ No
- ☐ Other Method: (Please explain.) _____

21. Sludge Handling/Disposal:

Handling: (Check all that apply.)

- ☐ Sludge Thickener ☒ Sludge Drying Beds ☐ Belt Dryer ☐ Sludge Lagoons ☐ Composting
- Other types of Dewatering: (Please explain.) _____

22. Disposal: (Check all that apply.)

- ☐ Land Application Liquid Permit Number _____ ☐ Land Application Dried Permit Number _____
- ☐ Landfill ☐ Incineration ☐ Stockpile ☒ Hauling (hauler name) Wealing Brothers
- Other: _____

NPDES PERMIT NUMBER: IN00 20061

23. Facility Construction/Modification:

Is the facility proposing any new construction or facility modification at this time?

☐ Yes ☒ No

If Yes, describe in detail the nature of the construction including proposed time tables, IDEM Construction Permit Approval Number, and date of construction approval:

24. Facility Description:

Provide a narrative description of the wastewater treatment facility detailing equipment and plant layout. Providing a separate, detailed flow diagram or design summary is also recommended.

See attached

Signature Block:

This application **must** be signed by a person in responsible charge (such as the owner, partner, a corporate officer, school board president, school superintendent, etc.) to be valid. This signature, attests to the following:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information to be true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Pete Breuckman

(Printed Name of Person Signing)

02/20/2018

(Date of Application) (month/day/year)

Town Council President

(Title)



(Signature of Applicant)

Return Completed Application, Fee and Associated Materials to:

Indiana Department of Environmental Management
Office of Water Quality – Mail Code 65-42
Municipal NPDES Permits Section
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

OWQ Form: Affected

TO: Applicant

FROM: Indiana Department of Environmental Management
Office of Water Quality
Municipal NPDES Permits Section

SUBJECT: Identification of Potentially Affected Persons

The Administrative Orders and Procedures Act (AOPA) IC 4-21.5, requires that the Department of Environmental Management (IDEM) give notice of its decision on your application to the following persons:

- (a) each person to whom the decision is specifically directed;
- (b) each person to whom a law requires notice be given;
- (c) each competitor who has applied to the IDEM for a mutually exclusive license, if issuance is the subject of the decision and the competitor's application has not been denied in an order for which all rights to judicial review have been waived or exhausted;
- (d) each person who has provided the IDEM with a written request for notification of the decision;
- (e) each person who has a substantial and direct proprietary interest in the issuance the (permit) (variance);
- (f) each person whose absence as a party in the proceeding concerning the (permit) (variance) decision would deny another party complete relief in the proceeding or who claims an interest related to the issuance of the (permit) (variance) and is so situated that the disposition of the matter, in the person's absence may:

- (1) as a practical matter impair or impede the person's ability to protect that interest, or
- (2) leave any other person who is a party to a proceeding concerning the permit subject to a substantial risk of incurring multiple or otherwise inconsistent obligations by reason of the person's claim interest.

IC 4-21.5-3-5(f) provides that IDEM may request your assistance in identifying these people.

Additionally, IC 13-15-3-1 requires IDEM to send notice that the permit application has been received by the department to the following:

- (a) The county executive of a county affected by the permit application.
- (b) The executive of a city that is affected by the permit application.
- (c) The executive of a town council of a town affected by the permit application.

Please provide on the following form the names of those persons affected by these statutes, and include mailing labels with your application. These mailing labels should have the names and addresses of the affected parties along with our mailing code (65-42PS) listed above each affected party listing.

Example: 65-42PS
John Doe
111 Circle Drive
City, State, ZIP Code


IDENTIFICATION OF POTENTIALLY AFFECTED PERSONS

Please list here any and all persons whom you have reason to believe have a substantial or proprietary interest in this matter, or could otherwise be considered to be potentially affected under the law. Failure to notify any person who is later determined to be potentially affected could result in voiding our decision on procedural grounds. To ensure conformance with Administrative Orders and Procedures Act (AOPA) and to avoid reversal of a decision, please list all such parties. The letter attached to this form will further explain the requirements under the AOPA. Attach additional names and addresses on a separate sheet of paper, as needed. Please indicate below the type of action you are requesting.

Name _____	Name _____
Street _____	Street _____
City, State, and ZIP _____	City, State, and ZIP _____
Name _____	Name _____
Street _____	Street _____
City, State, and ZIP <u>None</u>	City, State, and ZIP _____
Name _____	Name _____
Street _____	Street _____
City, State, and ZIP _____	City, State, and ZIP _____
Name _____	Name _____
Street _____	Street _____
City, State, and ZIP _____	City, State, and ZIP _____

Please complete this form by signing the following statement:

I certify that to the best of my knowledge I have listed all potentially affected parties, as defined by IC 4-21.5.

Signature 	Date (month/day/year) <u>02/ 20 /2018</u>
Printed Name <u>Pete Breuckman</u>	
Name of Facility <u>Town of Hebron</u>	
Address <u>106 E. Sigler Road/P.O. Box 478</u>	
<u>Hebron, IN 46341</u>	

Type of Action: (check one)

- ☐ NPDES Permit-327 IAC 5
- ☐ Land Application Permit-327 IAC 6.1
- ☐ Confined Feeding Approval-IC 13-18-10
- ☐ Sewer Ban Waiver Request-327 IAC 4
- ☐ Operator Certification-327 IAC 5-22
- ☐ Pretreatment Permit -327 IAC 5
- ☐ Construction Permit-327 IAC 3

Return To: (include NPDES permit number on check)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Quality – Mail Code 65-42
Municipal NPDES Permits Section
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

FEE INFORMATION FOR NPDES PERMIT APPLICATIONS

The following revised fees were established, pursuant to IC 13-18-20-12 to defray the costs of processing the permit applications for the NPDES permit program from **all** NPDES permit applicants:

- (1) When an application is filed with the Indiana Department of Environmental Management (IDEM), concerning a NPDES Permit action a fifty dollar (\$50) application fee must be remitted. A permit action includes an application for an initial permit, the renewal of a permit, the modification of a permit, or a variance of a permit or permit limitation. If the application fee is not remitted the IDEM shall deny the permit application.
- (2) The permittee will remit the fee at the time the application, or a request for modification is filed with the IDEM. No fee will be assessed for permit modifications initiated by the IDEM.
- (3) For construction activity subject to 327 IAC 15-5, a fee of one hundred dollars (\$100) shall be submitted with a Notice of Intent (NOI) letter.
- (4) **The fees specified above will be payable to the Indiana Department of Environmental Management.** Any fee submitted will not be refundable once substantive processing of the permit application has commenced.

Additionally the issuance of (or existence of) a NPDES Permit will require the permittee to pay an annual fee for which billing will be made by the IDEM, all in accordance with IC 13-18-20. If there are any questions pertaining to the annual fee schedule contained in the regulation, they should be directed to the Operations Section of the Office of Water Quality at 317/232-8472.

Please send the completed forms and appropriate fee together with a cover letter to the **Indiana Department of Environmental Management, Office of Water Quality – Mail Code 65-42, Municipal NPDES Permits Section, 100 North Senate Avenue, Indianapolis, Indiana 46204-2251.**

Hebron Wastewater Treatment Plant-Treatment Train Description

Raw sewage enters facility via a 24" gravity sewer which flows through a mechanically cleaned screening device. Flow then passes through a 9" Parshall flume where it is measured by an ultrasonic flow meter. It then flows to the raw sewage wet well where it is pumped with four submersible sewage pumps, each run by variable frequency drives.

The flow during normal dry weather periods is split to one of three Lakeside Spiragesters which serve as both primary clarifiers and anaerobic digesters.

After primary clarification the wastewater passes through a primary trickling filter then passes through a secondary clarifier. Flow is either sent back to the recirculation pump station or it flows to the Nitrification Tower pump station. The water is then pumped to the top of the Nitrification Towers where it flows to a flow splitter manhole. The flow can either be returned to the Nitrification pump station or to one of three final clarifiers. The final effluent can either be directed back to the Nitrification Tower pump station or it is discharged through an area-velocity flow meter to the Ultraviolet Disinfection system.

Disinfected effluent passes through a modulating level valve and into the high level pump station where it either flows by gravity to the receiving stream or during periods where the receiving stream is at high level, effluent will be pumped to the receiving stream.

During periods of peak flow, raw influent flow is blended directly to the nitrification pump station where it is pumped through the nitrification towers.

There is also an intermediate trickling filter bypass/blending valve located at the Spiragester effluent manhole. This allows flow to be diverted around the intermediate trickling filter directly to the nitrification wet well where it is blended with clarified intermediate effluent for further treatment.

Sludge is wasted from the intermediate and final clarifiers back to the head works where it is where it is pumped to the Spiragesters. Final sludge is pumped to drying beds and the landfilled. A land application permit is being considered for sludge disposal.

WWTP SCHEMATIC -

164

A } spiegelgestirnt
B }
C }

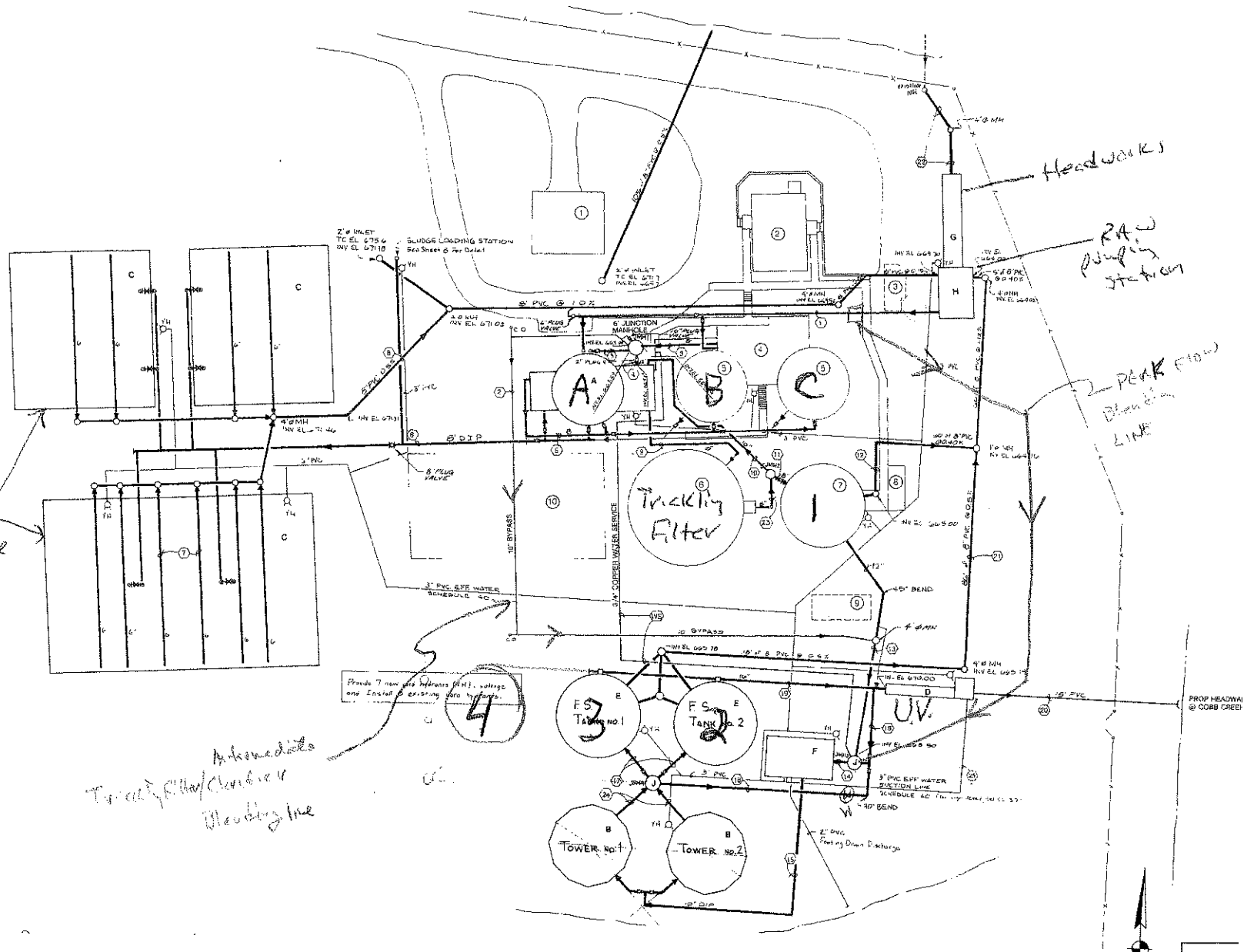
1- intermediate Classifier

- 2
- 3
- 4

} FWWAC CLARIFIER

Sludge
Drying
BEDS

Artemide
Tuck / Filter / Clear /
Bleeding line





DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
INDIANAPOLIS

OFFICE MEMORANDUM

To: Gale Ferris
Municipal Permits section

Date: 21-May-03

From: Gurdeo S. Sondhe
Modeling Section

Thru: Gus Jumawan

Subject: WLA update for HEBRON MUNICIPAL STP , in0020061 , GHF WLA001057

This is a documentary response to your request. The analysis is based on the human recreational use of the stream [327 IAC 2-1-6(d)], requirements of [327 IAC 5-2-11.1(g)(1)/(2)] in developing WQBELs considering E. Coli, a human health hazard and USEPA Implementation Guidelines for Ambient Water Quality Criteria for Bacteria. This analyses also include ammonia-N and TRC effluent limitations for a given sample numbers, which is same for both parameters (Tables 1, 2 and 2A). Conventional parameters (summer/winter) cBOD5/TSS in enclosed existing permit document/WLA Report, are still applicable/valid (Table 3) with the updated 1999 ammonia-N criteria for ammonia-N effluent limitations.

This WLA Memo will be a supplement to previous August 1993 WLA Report.

Application of above regulatory requirements and technical procedures result the following:

EFFLUENT LIMITATIONS FOR E. Coli [(327 IAC 5-2-11.1g(1)/(2))]

DISCHARGER :		HEBRON MUNICIPAL STP	
Plant Design Flow (mgd):	0.52	0.806 (cfs)	TABLE 1
Source of Wastewater:	Others - Groundwater		
CITY / COUNTY	HEBRON		PORTER

RECEIVING STREAM :		KANKAKEE R VIA COBBS CREEK	
Upstream Q7,10 Flow (cfs)	2.00	Q7,10	1.29 mgd
E. Coli Sampling / Monitoring Requirement Mentioned in the NPDES Permit		Daily Sample 30 (Samples/Month) CV 0.6	

	Background Concentration		RECOMMENDED EFFLUENT LIMITATIONS	
	Geometric mean		Monthly	Daily
	Count /100 ml		Geometric mean	Maximum
	232.82	Receiving Stream : Impaired for E.Coli	Count / 100 ml	Count / 100 ml
		Receiving stream is listed as Impaired for E. Coli BC>125		
UMK090-0012	Kankakee River , Jasper CR 400 W Bridge, Below Sandy Hook Ditch , Por		125	235

Water Quality Standards 327 IAC 2-1-6(d)	30 Day Geomean (Count / 100 ml)	1 Day Max (Count / 100 ml)
	125	235

HEBRON MUNICIPAL STP			WASTELOAD ALLOCATION - EFFLUENT LIMITATIONS			TABLE 2	
FACILITY			HEBRON MUNICIPAL STP /			21-May-03 11:00:34	
COUNTY:			PORTER			G.S.Sondhe 2-8701 Non-GLI Facility	
RECEIVING WATER(s)			KANKAKEE R VIA COBBS CREEK				
Water Use Designation Aquatic Life			Aquatic Habitat:			Warmwater Species	
TREATMENT PLANT	Design	FLOW	0.520	mgd			
PLANT	Design	FLOW	0.805	cfs			
HEADWATER	Annual	Q7,10	FLOW	2.000	cfs		
December 1999 Criteria	Q30,10	FLOW	3.000	cfs			
Stream and Effluent Water Quality Data			SUMMER		WINTER		
Stream Ammonia-N (Monthly)			0.20 mg/l		0.20		
UPSTREAM			Temperature 25.00 CG		10.00		
			pH 7.80		7.80		
EFFLUENT			Temperature 25.00 mg/l		15.00		
			pH 7.80		7.80		
DOWNSTREAM			Temperature 25.00 mg/l		12.23		
			pH 7.80		7.80		
BIO-MECHANICAL TREATMENT FACILITIES			SUMMER		WINTER		
			(MAY through NOVEMBER)		(DECEMBER through APRIL)		
PLANT			0.520 mgd		0.520 mgd		
Design FLOW			0.806 cfs		0.806 cfs		
PART I	CONVENTIONAL EFFLUENT LIMITATIONS [Monthly Average (CBOD5 or TBOD5 or BOD5), and TSS]						
		SUMMER		WINTER			
	CBOD5	25.00 mg/l		25.00 mg/l			
	TSS	30.00 mg/l		30.00 mg/l			
	Daily Average D.O.	5.000 mg/l		4.000 mg/l			
PART II	Simulated Ammonia-N (Chronic / Acute / D.O. Water Quality Based) Effluent Limitations MONTHLY Average)						
	May through November			December through April			
		SUMMER		WINTER			
30 Samples / Month and [Default CV = 0.6]		4.0 mg/l		8.1		AML AVE Monthly Limits	
Recommended NH3-N WQBELs [TSD 91,5.4.1, page 98]		10.4 mg/l		21.2		MDL Monthly Daily Limits	
IT SHOULD BE NOTED THAT AMMONIA-N WLA TRANSLATION TO WQBELs ACCORDING TO EPA PROCEDURE [TSD 91,5.4.1 Page 98] INDICATES THAT SUMMER CHRONIC (AML) = 3.95 mg/l WILL BE REQUIRED TO CONTROL THE MOST LIMITING AMMONIA-N TOXIC EFFECT FOR AQUATIC LIFE.							
PART III	TOTAL RESIDUAL CHLORINE (TRC)		Chronic 4-day Average		Acute (FAV) Maximum		
	Water Quality Standards 327IAC 2-1-6(a)(3)		11 ug/l		38 ug/l		
	WQS - Based TRC Effluent Limitations		Monthly Average		Daily Maximum		
	Sampling/Monitoring Requirement Mentioned in the NPDES Permit		0.02 mg/l		0.04 mg/l		
PART IV	WQS - Based E. Coli Effluent Limitations (Count / 100 ml)		Rule 327 IAC 5-2-11.1				
Based on present available information/data, requirements as mentioned in WQ Rules 327 IAC 2-1-6(d), 327 IAC 5-2-11.1(g)(1)/(2) and USEPA Procedure (TSD - 1991 page 100) for human health hazards.			30 - day (Monthly)		1 - day (Daily)		
			Geometric mean		Maximum		
			125		235		
Water Quality Standards 327 IAC 2-1-6(d)			125		235		
E. Coli Sampling / Monitoring Requirement Mentioned in the NPDES Permit			Daily Sample		30 (Samples/Month)		
Source of Wastewater:			Others - Groundwater				
Samples / Month Selected For E. Coli Analyses =			30		CV Selected		0.6

HEBRON MUNICIPAL STP				WASTELOAD ALLOCATION - EFFLUENT LIMITATIONS				TABLE 2A	
FACILITY: HEBRON MUNICIPAL STP /				21-May-03		11:00:34			
COUNTY: PORTER				Non-GLI Facility		G.S.Sondhe 2-8701			
TREATMENT PLANT		Design	FLOW	0.520	mgd				
PLANT		Design	FLOW	0.805	cfs				
RECEIVING WATER(s): KANKAKEE R VIA COBBS CREEK									
Water Use Designation: Aquatic Life				Aquatic Habitat: Warmwater Species					
HEADWATER		Annual Q7,10	FLOW	2.000	cfs				
December 1999 Criteria		Q30,10	FLOW	3.000	cfs				
Stream and Effluent Water Quality Data				SUMMER		WINTER			
Stream Ammonia-N (Monthly)				0.2 mg/l		0.20			
UPSTREAM		Temperature	25.00	CG	10.00				
		pH	7.80		7.80				
EFFLUENT		Temperature	25.00	mg/l	15.00				
		pH	7.80		7.80				
DOWNSTREAM		Temperature	25.00	mg/l	12.23				
		pH	7.80		7.80				
BIO-MECHANICAL TREATMENT FACILITIES									
SUMMER				WINTER					
(MAY through NOVEMBER)				(DECEMBER through APRIL)					
PLANT		0.520	mgd	0.520		mgd			
Design FLOW		0.806	cfs	0.806		cfs			
PART I				CONVENTIONAL EFFLUENT LIMITATIONS [Monthly Average (CBOD5 or TBOD5 or BOD5), and TSS]					
CBOD5		SUMMER		WINTER					
		25.00 mg/l		25.00 mg/l					
TSS		30.00 mg/l		30.00 mg/l					
Daily Average D.O.		5.000 mg/l		4.000 mg/l					
PART II				Simulated Ammonia-N (Chronic / Acute / D.O. Water Quality Based) Effluent Limitations MONTHLY Average)					
				May through November		December through April			
Headwater : Q30,10 Flow Is Used for 1999 Criteria.				SUMMER		WINTER			
CCC Standard		CHRONIC		1.62	mg/l	3.18			
CCC-WLA				4.26	mg/l	8.73			
CCC-LTA				3.32	mg/l	6.81			
AML { 30 Samples / Month and [Default CV = 0.6] }				3.95	mg/l	8.11	AML AVE Monthly Limits		
MDL { 1 Sample/Month and [Default CV = 0.6] }				10.35	mg/l	21.22	MDL Monthly Daily Limits		
CMC Standard		ACUTE		12.14	mg/l	12.14			
CMC-WLA				24.08	mg/l	24.08			
FAV				24.28	mg/l	24.28			
CMC-LTA				7.73	mg/l	7.73			
AML { 30 Samples / Month and [Default CV = 0.6] }				9.2	mg/l	9.2	AML AVE Monthly Limits		
MDL { 1 Sample/Month and [Default CV = 0.6] }				24.0	mg/l	24.0	MDL Monthly Daily Limits		
Recommended NH3-N WQBELs [TSD 91,5.4.1, page 98]				4.0	mg/l	8.1	AML AVE Monthly Limits		
				10.4	mg/l	21.2	MDL Monthly Daily Limits		
IT SHOULD BE NOTED THAT AMMONIA-N WLA TRANSLATION TO WQBELS ACCORDING TO EPA PROCEDURE [TSD 91,5.4.1 Page 98] INDICATES THAT SUMMER CHRONIC (AML) = 3.95 mg/l WILL BE REQUIRED TO CONTROL THE MOST LIMITING AMMONIA-N TOXIC EFFECT FOR AQUATIC LIFE.									
PART III				Chronic 4-day Average		Acute (FAV) Maximum			
TOTAL RESIDUAL CHLORINE (TRC)				11 ug/l		38 ug/l			
Water Quality Standards 327 IAC 2-1-6(a)(3)									
WQS - Based TRC Effluent Limitations				Monthly Average		Daily Maximum			
Sampling/Monitoring Requirement Mentioned in the NPDES Permit				0.02 mg/l		0.04 mg/l			
PART IV				WQS - Based E. Coli Effluent Limitations (Count / 100 ml)		Rule 327 IAC 5-2-11.1			
Samples / Month Selected For E. Coli Analyses =				30		CV Selected		0.600	
Based on present available information/data, requirements as mentioned in WQ Rules 327 IAC 2-1-6(d), 327 IAC 5-2-11.1(g)(1)/(2) and USEPA Procedure (TSD - 1991 page 100) for human health hazards.				30 - day (Monthly)		1 - day (Daily)			
				Geometric mean		Maximum			
				125		235			

CONVENTIONAL POLLUTANTS - EFFLUENT LIMITATION TABLE

TABLE 3

WQBELs For HEBRON MUNICIPAL STP

Parameter	Monthly Average	Daily Average	Units
FLOW	0.5200		mgd
cBOD5			
Summer	25.0		mg/l
Winter	25.0		mg/l
TSS			
Summer	30.0		mg/l
Winter	30.0		mg/l
Total Ammonia (as N)	Recommended NH3-N WQBELs [TSD 91,5.4.1, page 98]		
Summer	4.0		mg/l
Winter	8.1		
	Existing Ammonia-N Limits		
Summer	3.1		
Winter	4.7		mg/l
Dissolved Oxygen			
Summer		5	mg/l
Winter		4	mg/l
E. coli*	125	235 [Daily MAX]	* c/100 ml as a geometric mean

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Indianapolis

OFFICE MEMORANDUM

DATE: August 20, 1993

TO: Catherine Hess *CHH*
NPDES Supervisor (Municipal)
Permits Section

THRU: Agustin Jumanawan *AJ*

FROM: Gurdeo S. Sondhe *G. Sondhe*
Modeling and Engineering Services Section

SUBJECT: Re-evaluation of NPDES effluent limitations for the
Hebron WWTP, Porter County

In response to your memo dated August 18, 1993, the staff has reviewed/updated April 8, 1991 wasteload report for the above-mentioned facility. This update/revision is required due to revised toxic criteria issued by the U.S. EPA in July 1992. The current design flow of the plant is 0.52 mgd. The receiving waterbody is Cobbs Creek, a tributary to Kankakee River, which has a Q_{7,10} flow of 2.0 cfs. Based on the criteria established in WQ Rules 327 IAC 2-1-6(b)(a)(2) and US EPA HQ Revised ammonia-N Tables (July 30, 1992), results indicate that there are no changes in the cBOD₅/DO (April 1991 WLA Report) effluent limitations except the summer/ winter ammonia-N effluent limitations which will increase from 2.13/3.31 mg/l to 3.06/4.65 mg/l

This memo will be an addendum to April 1991 WLA Report.

GSS/gss

Attachments:

Table 1	Results of Effluent Limitations Analysis
Table 1B	Ammonia-N Load Allocation Analysis
Table 2	Stream Water Quality Simulation (Summer)
Table 2B	(Winter)

TABLE: 1

RESULTS OF EFFLUENT LIMITATION ANALYSIS

20-Aug-93

10:05:03

Gurdeo S Sondhe

FACILITY : HEBRON WWTP / upgrading existing Plant / PORTER County

RECEIVING WATER(s) : COBBS CREEK / KANKAKEE RIVER

Water Use Designation : AQUATIC LIFE

WQ Standards : Rule 327 IAC 2-1

Aquatic Habitat : Warmwater Species

BIO-MECHANICAL TREATMENT FACILITIES

	SUMMER	WINTER
	(MAY through NOVEMBER)	(DECEMBER through APRIL)
PLANT	0.520 mgd	0.520 mgd
Design FLOW	0.806 cfs	0.806 cfs
Daily Average D.O.	5.0 mg/l	4.0 mg/l

Monthly Average (CBOD5 or TBOD5 or BOD5), and TSS

	SUMMER	WINTER
	(MAY through NOVEMBER)	(DECEMBER through APRIL)
CBOD5	25.00 mg/l	25.00 mg/l

AMMONIA-N Chronic Values	(SUMMER)	(WINTER)
	May thru November	December thru April
Based on USEPA HQ Revised Tables July 30, 1992 and WQ Rule 327 IAC 2-1-6(b)(5)(A)	3.06 mg/l	4.65 mg/l

REMARKS:

LAST WLA REPORT / MEMO DONE ON APRIL 8, 1991

REVISION WAS DUE TO REVISED Q7,10 FLOW (Ref: Chuck'S Memo Dated: April 1, 1991

TABLE: 1A

TOXIC AMMONIA-N LOAD ALLOCATION ANALYSIS

20-Aug-93

10:05:03

Gurdeo S Sondhe

FACILITY : HEBRON WWTP / upgrading existing Plant / PORTER County

RECEIVING WATER(s) : COBBS CREEK / KANKAKEE RIVER

Water Use Designation : AQUATIC LIFE

WQ Standards : Rule 327 IAC 2-1

Aquatic Habitat : Warmwater Species

TREATMENT PLANT DESIGN FLOW :		0.520	mgd
Plant Design Flow :		0.806	cfs
Headwater Q7,10 FLOW :		2.000	cfs
Headwater Flow used in the Analysis :		50.000	%

Stream and Effluent Water Quality Data		SUMMER		WINTER	
		May - November		December - April	
Stream ammonia-N (Monthly)		0.20	mg/l	0.20	mg/l
Upstream Temperature		25.00	CG	10.00	CG
pH		7.80		7.80	
EFFLUENT Temperature		25.00	CG	15.00	CG
pH		7.50		7.50	
DOWNSTREAM Temperature		25.00	CG	12.23	CG
pH		7.64		7.64	

Ammonia-N Standards		Un-ionized Ammonia-N	Instream Ammonia-N	[Ammonia-N] Stream-Based
SEASON (Ammonia-N Values in mg/l)				
SUMMER 327 IAC 2-1-6(b)(5)A		0.0358 (M)	1.4777 (M)	3.0630 (M)
WINTER (Revised - July 1992)		0.0210 (M)	2.1856 (M)	4.6492 (M)

75 Percentile Effluent pH and Temperature Determination:

75 Percentile Stream pH and Temperature Determination:

TABLE 2

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER MANAGEMENT		20-Aug-93 10:03:02 <i>G.S. Sondhe</i>			
SUMMER WASTELOAD ALLOCATION ANALYSIS					
Treatment Facility :		HEBRON WWTP			
County :		PORTER			
Receiving Stream(s) :		COBBS CREEK / KANKAKEE RIVER KANKAKEE RIVER			
Wasteload Allocation Analysis performed by :		Gurdeo S. Sondhe			
Date :		20-Aug-93			
<u>STREAM WATER QUALITY STANDARDS</u>					
INSTREAM DISSOLVED OXYGEN = 5.0 mg/l Ammonia-N Standard is based on the RULE 327 IAC 2-1					
<u>HEADWATER AND EFFLUENT WATER QUALITY INPUT DATA</u>					
	FLOW	cBODU	NBODU	D.O.	TEMP
	cfs	mg/l	mg/l	mg/l	CG
HEADWATER QUALITY	2.000	6.000	0.600	7.362	25.000
EFFLUENT WATER QUALITY	0.806	57.500	13.710	5.000	25.000
Downstream of FACILITY	2.806	20.790	4.370	6.680	25.000
<u>HYDRAULIC CHARACTERISTICS DOWNSTREAM OF THE TREATMENT PLANT</u>					
VELOCITY - DEPTH OPTIONS:					
Observed Field Data used in the COMPUTATION of VELOCITY and DEPTH D/S OF STP					
OPTION - 2 OBSERVED FIELD DATA of Creek					
	FLOW	VELOCITY	DEPTH		
	1.1000	0.1900	0.2972		
HYDRAULIC SURVEY COMMENTS:					
<u>STREAM HYDRAULIC DATA</u>					
DOWNSTREAM OF STP	VELOCITY	DEPTH	SLOPE	MANNING'S	
	ft/sec	ft.	ft/mile		
	0.2763	0.5213	5.0000	0.0250	
<u>REACH or SEGMENT DATA</u>					
	Reach HEAD		Reach END		
	3.0000 mile		0.0000 mile		
	Computational ELEMENT		0.0600 mile		
Reach or Segment No. : 1 COBBS CREEK / KANKAKEE RIVER					

20-Aug-93

10:03:02

G.S. Sondhe

REAERATION AND REACTION RATES**TEMPERATURE INSTREAM REMARK**

At 20 CG 25.0000

REAERATION RATE [1/DAY]	4.2139	4.7445	PARKHURST - POMEROY
CBOD DECAY RATE [1/DAY]	0.5000	0.6291	
NBOD DECAY RATE [1/DAY]	0.4000	0.5877	
SEDIMENTATION [1/DAY]	0.0000	0.0000	"-" SUSPENSION
			"+" SEDIMENTATION
BENTHIC OXYGEN DEMAND	0.2000	0.2740	IN GM/SQ.M/DAY

SIMULATED INSTREAM WATER QUALITY:**DOWNSTREAM OF A DISCHARGER OR BELOW JUNCTION**

TIME DAYS	DISTANCE MILE	D.O. mg/l	cBODU mg/l	NBODU mg/l
0.0000	0.0000	6.6837	20.7929	4.3657
0.0133	0.0600	6.5524	20.6201	4.3318
0.0265	0.1200	6.4308	20.4487	4.2982
0.0398	0.1800	6.3183	20.2787	4.2648
0.0531	0.2400	6.2142	20.1102	4.2317
0.0663	0.3000	6.1182	19.9430	4.1988
0.0796	0.3600	6.0295	19.7772	4.1662
0.0929	0.4200	5.9479	19.6128	4.1338
0.1062	0.4800	5.8728	19.4498	4.1017
0.1194	0.5400	5.8038	19.2881	4.0698
0.1327	0.6000	5.7406	19.1278	4.0382
0.1460	0.6600	5.6828	18.9688	4.0068
0.1592	0.7200	5.6300	18.8111	3.9757
0.1725	0.7800	5.5819	18.6547	3.9448
0.1858	0.8400	5.5383	18.4997	3.9142
0.1990	0.9000	5.4988	18.3459	3.8838
0.2123	0.9600	5.4632	18.1934	3.8536
0.2256	1.0200	5.4312	18.0421	3.8237
0.2388	1.0800	5.4027	17.8922	3.7940
0.2521	1.1400	5.3772	17.7434	3.7645
0.2654	1.2000	5.3548	17.5959	3.7352
0.2787	1.2600	5.3351	17.4497	3.7062
0.2919	1.3200	5.3181	17.3046	3.6774
0.3052	1.3800	5.3034	17.1608	3.6489
0.3185	1.4400	5.2911	17.0181	3.6205
0.3317	1.5000	5.2808	16.8767	3.5924

20-Aug-93

10:03:02

G.S. Sondhe

TIME DAYS	DISTANCE MILE	D.O. mg/l	cBODU mg/l	NBODU mg/l
0.3450	1.5600	5.2725	16.7364	3.5645
0.3583	1.6200	5.2661	16.5973	3.5368
0.3715	1.6800	5.2614	16.4593	3.5093
0.3848	1.7400	5.2583	16.3225	3.4821
0.3981	1.8000	5.2567	16.1868	3.4550
0.4113	1.8600	5.2565	16.0523	3.4282
0.4246	1.9200	5.2575	15.9188	3.4015
0.4379	1.9800	5.2598	15.7865	3.3751
0.4511	2.0400	5.2633	15.6553	3.3489
0.4644	2.1000	5.2677	15.5251	3.3229
0.4777	2.1600	5.2732	15.3961	3.2971
0.4910	2.2200	5.2795	15.2681	3.2715
0.5042	2.2800	5.2867	15.1412	3.2461
0.5175	2.3400	5.2946	15.0153	3.2208
0.5308	2.4000	5.3033	14.8905	3.1958
0.5440	2.4600	5.3126	14.7667	3.1710
0.5573	2.5200	5.3226	14.6440	3.1464
0.5706	2.5800	5.3331	14.5223	3.1219
0.5838	2.6400	5.3441	14.4015	3.0977
0.5971	2.7000	5.3557	14.2818	3.0736
0.6104	2.7600	5.3676	14.1631	3.0497
0.6236	2.8200	5.3800	14.0454	3.0260
0.6369	2.8800	5.3927	13.9286	3.0025
0.6502	2.9400	5.4058	13.8128	2.9792
0.6635	3.0000	5.4192	13.6980	2.9561

MINIMUM INSTREAM DISSOLVED OXYGEN 5.2564 mg/l OCCURS AT
0.4068 DAYS AND 1.8396 MILES BELOW DISCHARGER OR JUNCTION

Gurdeo S. Sondhe

TABLE 2A

**DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER MANAGEMENT**

20-Aug-93

15:01:28

G.S. Sondhe

WINTER WASTELOAD ALLOCATION ANALYSIS

Treatment Facility : HEBRON WWTP
County : PORTER

Receiving Stream(s) : COBBS CREEK / KANKAKEE RIVER
: KANKAKEE RIVER

Wasteload Allocation Analysis performed by : Gurdeo S. Sondhe
Date : 20-Aug-93

STREAM WATER QUALITY STANDARDS

INSTREAM DISSOLVED OXYGEN = 5.0 mg/l
Ammonia-N Standard is based on the RULE 327 IAC 2-1

HEADWATER AND EFFLUENT WATER QUALITY INPUT DATA

	FLOW cfs	cBODU mg/l	NBODU mg/l	D.O. mg/l	TEMP CG
HEADWATER QUALITY	2.000	6.000	0.600	10.148	10.000
EFFLUENT WATER QUALITY	0.806	57.500	21.250	5.000	15.000
Downstream of FACILITY	2.806	20.790	6.530	8.670	11.440

HYDRAULIC CHARACTERISTICS DOWNSTREAM OF THE TREATMENT PLANT

VELOCITY - DEPTH OPTIONS:

Observed Field Data used in the COMPUTATION of VELOCITY and DEPTH D/S OF STP

OPTION - 2 OBSERVED FIELD DATA of Creek

FLOW	VELOCITY	DEPTH
1.1000	0.1900	0.2972

HYDRAULIC SURVEY COMMENTS:

STREAM HYDRAULIC DATA DOWNSTREAM OF STP	VELOCITY ft/sec	DEPTH ft.	SLOPE ft/mile	MANNING'S
	0.2763	0.5213	5.0000	0.0250

REACH or SEGMENT DATA	Reach HEAD	Reach END
	3.0000 mile	0.0000 mile
	Computational ELEMENT	0.0600 mile

Reach or Segment No. : 1 COBBS CREEK / KANKAKEE RIVER

20-Aug-93

15:01:28

G.S. Sondhe

REAERATION AND REACTION RATES

TEMPERATURE INSTREAM REMARK

At 20 CG 11.4400

REAERATION RATE [1/DAY]	4.2139	3.4394	PARKHURST - POMEROY
CBOD DECAY RATE [1/DAY]	0.5000	0.3374	
NBOD DECAY RATE [1/DAY]	0.4000	0.2069	
SEDIMENTATION [1/DAY]	0.0000	0.0000	"-" SUSPENSION
			"+" SEDIMENTATION
BENTHIC OXYGEN DEMAND	0.2000	0.1166	IN GM/SQ.M/DAY

SIMULATED INSTREAM WATER QUALITY:

DOWNSTREAM OF A DISCHARGER OR BELOW JUNCTION

TIME DAYS	DISTANCE MILE	D.O. mg/l	cBODU mg/l	NBODU mg/l
0.0000	0.0000	8.6690	20.7929	6.5315
0.0133	0.0600	8.6504	20.7001	6.5136
0.0265	0.1200	8.6331	20.6076	6.4958
0.0398	0.1800	8.6171	20.5155	6.4780
0.0531	0.2400	8.6021	20.4239	6.4602
0.0663	0.3000	8.5883	20.3327	6.4425
0.0796	0.3600	8.5756	20.2418	6.4248
0.0929	0.4200	8.5639	20.1514	6.4072
0.1062	0.4800	8.5531	20.0614	6.3896
0.1194	0.5400	8.5433	19.9718	6.3721
0.1327	0.6000	8.5343	19.8826	6.3546
0.1460	0.6600	8.5262	19.7938	6.3372
0.1592	0.7200	8.5189	19.7053	6.3198
0.1725	0.7800	8.5123	19.6173	6.3025
0.1858	0.8400	8.5065	19.5297	6.2852
0.1990	0.9000	8.5013	19.4424	6.2680
0.2123	0.9600	8.4968	19.3556	6.2508
0.2256	1.0200	8.4929	19.2691	6.2337
0.2388	1.0800	8.4896	19.1830	6.2166
0.2521	1.1400	8.4869	19.0974	6.1995
0.2654	1.2000	8.4848	19.0120	6.1825
0.2787	1.2600	8.4831	18.9271	6.1656
0.2919	1.3200	8.4820	18.8426	6.1487
0.3052	1.3800	8.4813	18.7584	6.1318
0.3185	1.4400	8.4810	18.6746	6.1150
0.3317	1.5000	8.4812	18.5912	6.0982

20-Aug-93

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G.S. Sondhe

TIME DAYS	DISTANCE MILE	D.O. mg/l	cBODU mg/l	NBODU mg/l
0.3450	1.5600	8.4817	18.5081	6.0815
0.3583	1.6200	8.4827	18.4255	6.0648
0.3715	1.6800	8.4840	18.3432	6.0482
0.3848	1.7400	8.4857	18.2612	6.0316
0.3981	1.8000	8.4877	18.1796	6.0151
0.4113	1.8600	8.4900	18.0984	5.9986
0.4246	1.9200	8.4926	18.0176	5.9821
0.4379	1.9800	8.4954	17.9371	5.9657
0.4511	2.0400	8.4986	17.8570	5.9494
0.4644	2.1000	8.5020	17.7772	5.9331
0.4777	2.1600	8.5056	17.6978	5.9168
0.4910	2.2200	8.5095	17.6187	5.9006
0.5042	2.2800	8.5136	17.5400	5.8844
0.5175	2.3400	8.5179	17.4617	5.8683
0.5308	2.4000	8.5223	17.3837	5.8522
0.5440	2.4600	8.5270	17.3060	5.8361
0.5573	2.5200	8.5319	17.2287	5.8201
0.5706	2.5800	8.5369	17.1518	5.8042
0.5838	2.6400	8.5420	17.0751	5.7882
0.5971	2.7000	8.5473	16.9989	5.7724
0.6104	2.7600	8.5528	16.9229	5.7565
0.6236	2.8200	8.5584	16.8473	5.7408
0.6369	2.8800	8.5641	16.7721	5.7250
0.6502	2.9400	8.5699	16.6972	5.7093
0.6635	3.0000	8.5758	16.6226	5.6937

MINIMUM INSTREAM DISSOLVED OXYGEN 8.4810 mg/l OCCURS AT
0.3197 DAYS AND 1.4454 MILES BELOW DISCHARGER OR JUNCTION

Gurdeo S. Sondhe